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CITICORP 

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Standalone Card Processing for International Citicard (ICC) CAT Application Product Specification

May 23, 1996

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Standalone CAT Application Product Specification*,
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installation of Release ICC603.

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*Standalone Card Processing for International Citicard (ICC) CAT
Application Product Specification*

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Preface

This Application Product Specification (APS) is one of a series of TTI specifications that define the global CAT products and their ICC applications.

It supports the Global Consumer Bank's (GCB) requirements for Phase 5 of the Global ICC project. The intended audience is GCB and TTI development managers and staff.

This APS applies to, and provides standards for, all CAT and CAT-based Citibanking platforms, including CAT, DUCAT, PC CAT, and production Customer Activated Sales and Service Terminal (CASST).

This APS is organized as follows:

Chapter 1

Introduction

provides an overview of the Card Processing for the ICC Standalone CAT application. It also provides the definitions, terms, conventions, and application defaults used by this application.

Chapter 2

ICC Standalone Card Processing

provides screen flow diagrams and language screens for the Standalone Card Processing.

Appendix A

CAT Application Logs

lists the data elements logged for each Card Processing event.

Appendix B

CAT Administrative Functions

provides counter displays for withdrawals of all supported currency types.

Conventions

The following convention pertains to this publication:

Where the functionality for all CAT devices is identical, the term "CAT" is used.

Related Reading

The following documents are related to the subject matter of this publication:

- Transaction Technology, Inc., *Release Information Bulletin ICC603*, TTI-96-0001-03, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Common CAT Configuration (CAT.ev) File Parameters*, TTI-96-0003-00, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *CAT/FEP Message-Level Interface Specification, Volume I—Common CAT*, TTI-95-0067-00, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Common CAT 2 Network Error Codes*, TTI-95-0066-00, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Common CAT 2 Specification*, TTI-94-0129-00, TTI, Santa Monica, California, 1995.
- Transaction Technology, Inc., *Global International Citicard (ICC) CAT Application Product Specification*, TTI-96-0037-00, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Portuguese*, A-978, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Chinese*, A-979, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Italian*, A-980, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Korean*, A-981, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Japanese*, A-982, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Greek*, A-983, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—French*, A-984, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—German*, A-985, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Dutch*, A-986, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Spanish*, A-987, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Standard CAT Administrative Application Product Specification*, TTI-93-0002-03, TTI, Santa Monica, California, 1995.

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Chapter 1

Introduction

This Application Product Specification (APS) is one of a series of TTI specifications that define the global CAT products and their ICC applications.

This APS is an adjunct to the main Global ICC specification (Global ICC CAT APS, document number TTI-96-0037), which supports the TTI business requirements for Phase 1 of the Global ICC product. The APS describes the software operation of the ICC Standalone Card Processing CAT application in the English language, which was developed as part of Release ICC603 (ICC Phase 5).

This APS describes the card processing performed for ICC customers when no local CAT application is available to perform it. It applies to, and provides standards for, all CAT, DUCAT, PC CAT, and production Customer Activated Sales and Service Terminals (CASST).

This chapter describes the following Card Processing functions:

- Definitions, Terms, and Conventions (Section 1.1)
- Application Defaults (Section 1.2)

1.1 Definitions, Terms, and Conventions

The following contains terms, definitions, and conventions found in this document.

1.1.1 Glossary of Terms

Action Code

FEP error codes are mapped into Action Codes by the application/integrator interface and used by the CAT software to determine what action to perform based on network response.

Background Message

A message that is sent from the CAT to the host processor for which the CAT does not have to wait for an immediate response. The CAT session may continue until either the response from the message sent is required for continued processing, or the CAT needs to send another message to the host processor.

Bankcard - (Citicorp and Citibank Bankcard)

For most CAT applications, bankcards are cards issued by Citicorp or Citibank. These are either credit cards (for example, MasterCard® or VISA®) or travel and entertainment cards (for example, Diners Club®).

Bank Identification Number

A number embossed and encoded on plastic cards that indicates the institution that issued the card.

CA Category

See Citibank Account (CA) Category.

CAT

Customer Activated Terminal is a terminal assembled by Citicorp TTI that is used as the strategic automated teller machine (ATM) for Citibank and Citicorp businesses worldwide.

Card Prefix Table (CPT)

A table that contains information about the cards supported at the CAT. That CPT may also contain a default entry if a specific card prefix is not found in the file.

Card Reader

The mechanism for reading the Magic Middle and/or the magnetic stripe on the customer's card. There are two types of card readers: dip readers and transport readers.

Cash Dispensing Mechanism (CDM)

The CAT delivery subsystem that dispenses cash and/or travelers checks to the customer.

Citibank Account (CA) Category

A generic grouping of one or more product types under a single heading. In this application, the On-Us ICC card customer is asked to choose among these categories on the Main Menu. Based on the choice made from the Main Menu, a customized function menu is offered next. There are four CA categories in Global ICC:

- Checking or Current
- Savings and Investments
- Credit Cards
- Loans

CPT

See Card Prefix Table.

Depository

The CAT delivery subsystem that accepts deposit and payment envelopes from the customer.

Dip Reader

A type of card reader that works by the customer quickly inserting and removing his/her card in one motion.

DUCAT

Drive-Up CAT. A drive-up model of the CAT hardware.

External Service Provider (ESP)

A system that provides data to the CAT, usually a FEP. Most messages consist of a request from the CAT and a response from the FEP.

Front-End Processor (FEP)

A system to which all CATs in a business are connected. The FEP passes service provider information to the CAT application and possibly provides other functions, such as network control. Each business has its own FEP. Usually, local account information is maintained in the business' FEP. For Citibank accounts from other businesses and for Off-Us accounts, the FEP serves as a switch to route requests to CitiShare® and then onto the host of the other network.

Integrator

A part of the CAT software environment that handles message processing to the Host or FEP, including initialization, application requests, scam processing, Billing/Deposit Reversal retries, and the reporting of the ESP status on a Network Control Facility (NCF) inquiry.

Magic Middle Card

A card that contains customer information encoded internally in the card.

Magnetic Stripe Card

A card that contains customer information encoded magnetically on a stripe located on the back of the card.

PC CAT

A personal computer, located in a branch, that runs CAT applications with the assistance of a customer representative. Mainly in branches without a CAT.

PC Printer

A peripheral printer attached to a PC running PC CAT.

Personal Identification Number (PIN)

Represents the identification number selected by a customer as his/her personal access code.

Product Category Code

A standard categorization (as opposed to region or business-specific) used by Global ICC as a basis for display content and functionality supported. See Table 2-1 for a listing of these codes for Global ICC.

Product Type Code

A code indicator used by the CAT to differentiate among products.

Record Printer

A printer which provides a paper record of transactions conducted during the session.

Special Instruction Number (SIN)

A status code sent by the network to indicate a special condition that has resulted from a network request.

Transport Reader

A card reader which retains the customer's card throughout the session.

Touchscreen

A touch-sensitive CAT screen, completely eliminating the need for buttons. The system communicates with the customer through screens, graphics, and sound. The customer communicates with the system by putting his/her fingers on the touch-sensitive areas of the screen, as indicated by the screen graphic.

1.1.2 Related Applications and Abbreviations

Following is a list of applications and their abbreviations, which are referenced in this APS:

Abbreviation	Application Name
PS	Product Select (Standalone ICC Card Processing)
PN	Product Select (Generic ICC)

1.1.3 Flowcharting Conventions

This section details the standard flowchart symbols.

Application Change -

Denotes a transition in screen flows to a different application. To follow the flow, look for the screen number within the application flow symbol in the other application. Application flow proceeds from that point.



Onpage Connector -

Exit to, or entry from, another part of the flowchart on the same page or sheet.



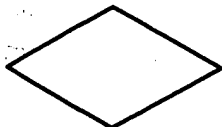
Offpage Connector -

Entry to, or exit from, another part of the flowchart on a different page or sheet.



Decision State -

Describes a condition that, depending upon the outcome, follows a different flow.



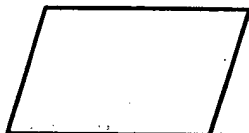
Document -

Denotes the output of a document (that is, a printed transaction record).



Input/Output -

Denotes an online input or output to or from the CAT (for example, cash or card read).



Integrator Call -

Describes a process in which the integrator is called and data is retrieved from or written to an ESP.



Manual Input -

Denotes a manual input (for example, deposit envelope).





Merge -

Used to merge screen flows.



Process -

Indicates that a specific action or process must happen (that is, Set Good-Read = True, or Set Card-Type = VISA).



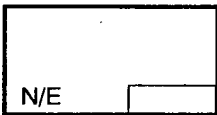
Subroutine -

Indicates the beginning and/or call to a process or subroutine (that is, Account Resolution or Personal Identification Number Validation).



Present Screen -

Denotes the name of a screen or overlay and its number. The screen should be displayed immediately with no pause.



No Exit Screen -

Denotes the name of a screen, its corresponding number, and that this particular screen does *not* have an EXIT button. The screen should be displayed immediately with no pause.



Prepare Screen -

Denotes the name of a screen overlay and its number. The screen should have no transitions defined, and is displayed only when an overlay with transitions is displayed later.

1.1.4 Standard Data Element Conventions

This section describes the format of the information provided with each screen.

Data Name -

A name associated with a piece of variable data. Data items returned from an ESP use initial capitalization (for example, Eqv_Txn_Amt). All other variable names use lowercase letters only (for example, acct_desc5). Developers need not use the same variables or data names used in the APS.

I/O - Input/Output -

The I/O entry indicates whether the data item is an input or an output variable.

Format -

For output variables, the format entry defines how to display the data item on the screen. If the data item is an input variable, the format designates how to format the data after the screen is terminated.

X(n) -

Alphanumeric output variable, n characters in length.

X(n) / \$ X(n) / W and X(n) / Z -

These field formats indicate three different ways to format the output of numerical data, where *n* is the length of the field in characters. All three formats have truncated leading zeroes. In formats with a currency descriptor or with decimal places, Table C-1, Currency Formats, indicates which descriptor to use, the thousands delimiter, the decimal delimiter, and the number of decimal places to include. The currency descriptor floats in front of the numerical amount.

- \$ Includes a currency descriptor and decimal places (\$100.00)
- Z Includes decimal places, but no currency descriptor (100.00)
- W Includes a currency descriptor, but no decimal places (\$100)

Conceptually, this format is the same as a \$\$\$\$,\$\$9.99-, except that the currency descriptor can vary.

9(n) -

Numeric output variable of the maximum transfer value.
Always display n digits, including leading zeroes.

L-R-V-C Right- Left-Variable -

This L-R-V-C entry indicates how the output variable should be justified.

“L” denotes left justified display of the variable, leaving any additional unused character positions to the right of the display.

“R” denotes right justified display of the variable, leaving any additional unused character positions to the left of the display.

“V” denotes left justified display of the variable where any unused character positions are truncated, and following text (or variables) on the display line is shifted to the left, one character after the end of the variable.

“C” denotes centered justification of the variable within the maximum field size.

1.1.5 Screen Numbers

The standard for ICC Standalone screen numbers is:

PS60XX

where XX=01-49.

1.2 Application Defaults

The following default values should be used by this application unless specifically stated in the screen definition.

1.2.1 Description of Timeouts

This section defines default values used in this APS whenever the timeout value is not explicitly stated in the flowchart for a screen. The examples here define common values that can be used for any business not having specific requirements for different timeout values. These values are from the customer's viewpoint.

This section describes the screen timeouts for general, error, and administrative screens, in addition to the timeout for the transport card reader.

1.2.1.1 *General Screens*

The general screen timeout is 45 seconds. This is a timeout while waiting for the user to touch the screen.

1.2.1.2 *Error Screens*

The default timeout for error screens that terminate the session (that is, return to the Hello screen) is 7 seconds.

1.2.1.3 *N/E (Action) Screens*

These screens stay up for as long as it takes to prepare and present the next screen, but no less than a minimum of 2 seconds. The minimum is specified here in order to prevent the screen from "flashing" on and off without a customer being able to read what it says.

1.2.1.4 *Administrative Screens*

There is no timeout on Administrative Screens. They should be displayed indefinitely until the supervisor makes a selection.

1.2.1.5 *Card Capture*

The default timeout on the transport card reader while waiting for a user to take the card after it has been ejected is 24 seconds.

1.2.2 *Font Specifications*

TTI's Application Generation System (AGS) has several font sizes available for the Roman character alphabet. The two font sizes used are 40 characters across by 20 lines down (abbreviated as 40 x 20), and 53 characters across by 24 lines down (abbreviated as 53 x 24).

The default font is the 40 x 20 font. This font is represented on the screen displays in this APS by the font and point size that you are currently reading. The 53 x 24 font is represented on the screen displays in this APS by the following font and point size:

This smaller text represents the 53 x 24 font.

Note

When the 53 x 24 font is used, the column number indicators above the screen displays in this APS are not accurate. When AGS screens are generated, the starting and ending column positions must be estimated based on the screen representation in the APS.

1.2.3 Color Conventions

This section describes the colors and color conventions used by this application.

1.2.3.1 Color Palette

The following colors are used by this application. Red, green, and blue (RGB) values are specified in the range from 0 to 255.

Table 1-1. Color Palette

No.	Name	Red	Green	Blue
0	black	0	0	0
1	almost black	32	32	32
2	dark blue	48	48	80
3	dark blue-gray	80	80	112
4	medium blue-gray	112	112	144
5	pale blue-gray	144	144	176
6	light blue-gray	176	176	208
7	white	240	240	240
8	black	0	0	0
9	blue	0	0	176
10	red	144	48	48
11	pale yellow	220	190	100
12	green	0	250	64
13	cyan	0	176	176
14	yellow	250	220	40
15	white	240	240	240

1.2.3.2 Text Display Colors

The standard colors used in an application for text display are:

Table 1-2. Colors for Text Display

Element Description	Color	Color Number
Prompt Text	yellow	14
Key/Button Text	white	7
Recap Text	light blue-gray	6
Recap Amounts	green	12
Border Color	dark blue	2
Background Color	dark blue	2

Chapter 2

Standalone Card Processing

In most ICC installations, initial card processing is performed by the local CAT application. In ICC installations where there is no local CAT application, the ICC Standalone Card Processing application performs the initial card processing.

Therefore, Standalone Card Processing is only installed with Global ICC where there is no local CAT application.

ICC Standalone Card Processing is the application that controls the start of session, the initial card read, and routing to the generic ICC applications. The Standalone Card Processing Application is used only by ICC CATs that run only ICC applications and no local CAT applications. ICC Standalone CATs accept only ICC cards—no local cards are accepted.

2.1 Languages

Each screen in Standalone Card Processing may be displayed in either one or two languages, depending upon the language configuration of the CAT. If the CAT is configured for two languages, the languages are designated as primary and secondary. If only one language is set in the configuration, it is, by default, the primary language.

For clarity, only the two language screens have been referenced in the flowcharts. The single-language versions have been assigned the same screen number with a designator "A" appended to them. For example, Screen 6007 is the Out of Service - Two Language screen, and Screen 6007A is the Out of Service - One Language screen.

This is the English version of ICC Standalone Card Processing. These screens are used by all ICC Standalone CAT configurations in which English is the primary language. The secondary language may be any other language.

This APS also contains the variable text to use on secondary language portions for all screens where English is the secondary language. For variable text for all non-English languages, see the appropriate ICC language "Phrase by Screen Report".

2.2 Processing Overview

Following are the steps that comprise processing:

1. Check if an infinite retry message was sent. If so, check if a response has been received. Process accordingly.
2. Check the status of the devices. If the card reader or the touchscreen is down, take the CAT out of service. If they are up, continue.
3. Display the appropriate Hello screen. Wait for card insert/dip.
4. When a card is inserted, validate it for valid International Organization for Standardization (ISO) format.
5. If the device is a PC CAT configured for cardless access and the button for cardless access is activated, display a screen to capture the card identification number (CIN).
6. If the read was good, go to the ICC Generic Product Select (PN) application, whether the card was found in the ICC language table or not. If the read was not good, display an appropriate error screen and either time out (dip readers), or go through the Return Card routine (transport readers).
7. If the PN application is unable to process this card, it is returned to this application. For a Standalone ICC, it should always return a card class of unsupported if it cannot process the card. Otherwise, it is treated as a bad card read. In either case, display an appropriate error screen and either time out (dip readers) or go through the Return Card routine (transport readers).
8. Restart the application.

2.3 Flowcharts

This section provides the flowcharts that describe the ICC Standalone Card Processing application.

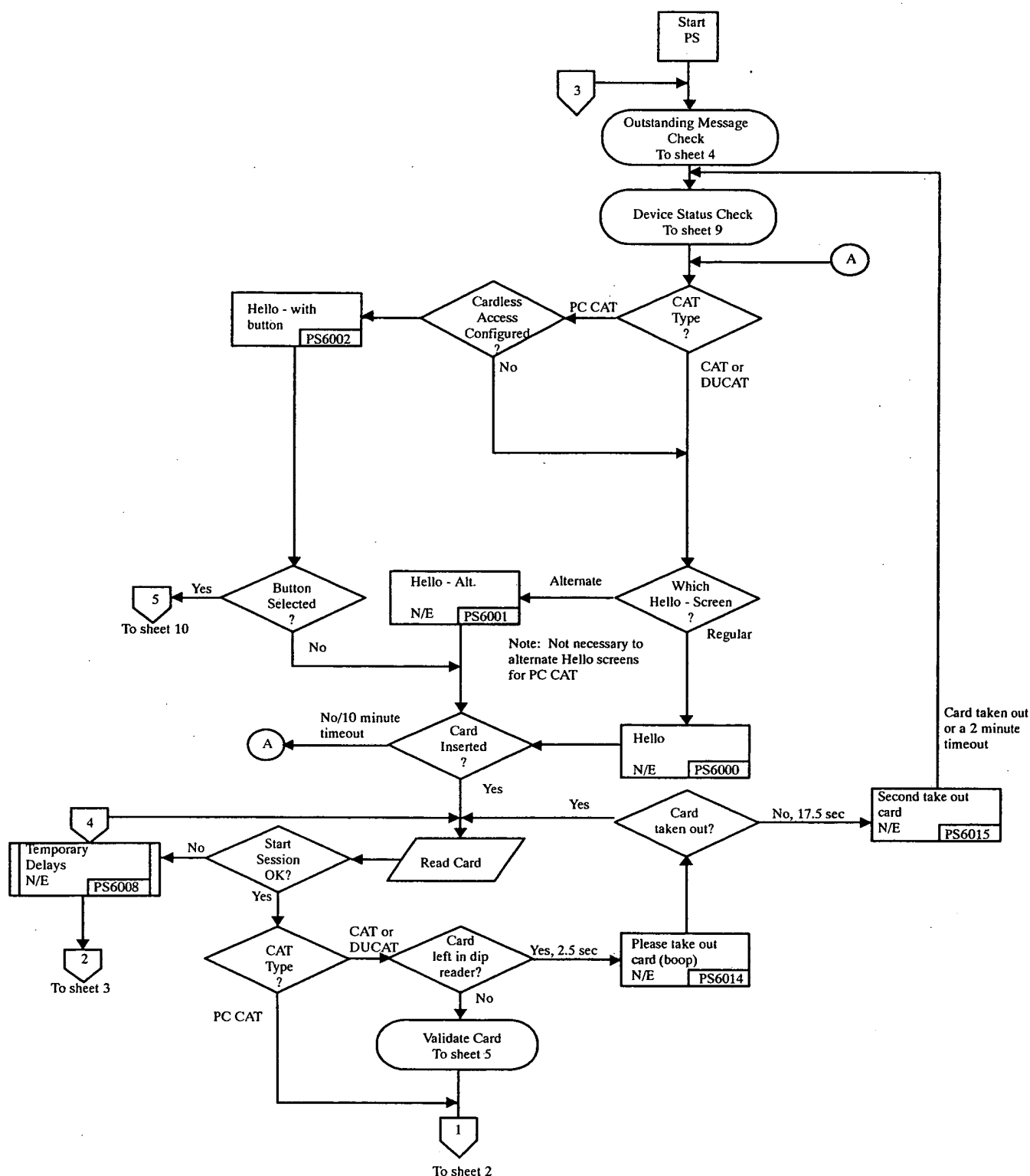


Figure 2-1. ICC Card Processing Hello and Read Card (Sheet 1 of 10)

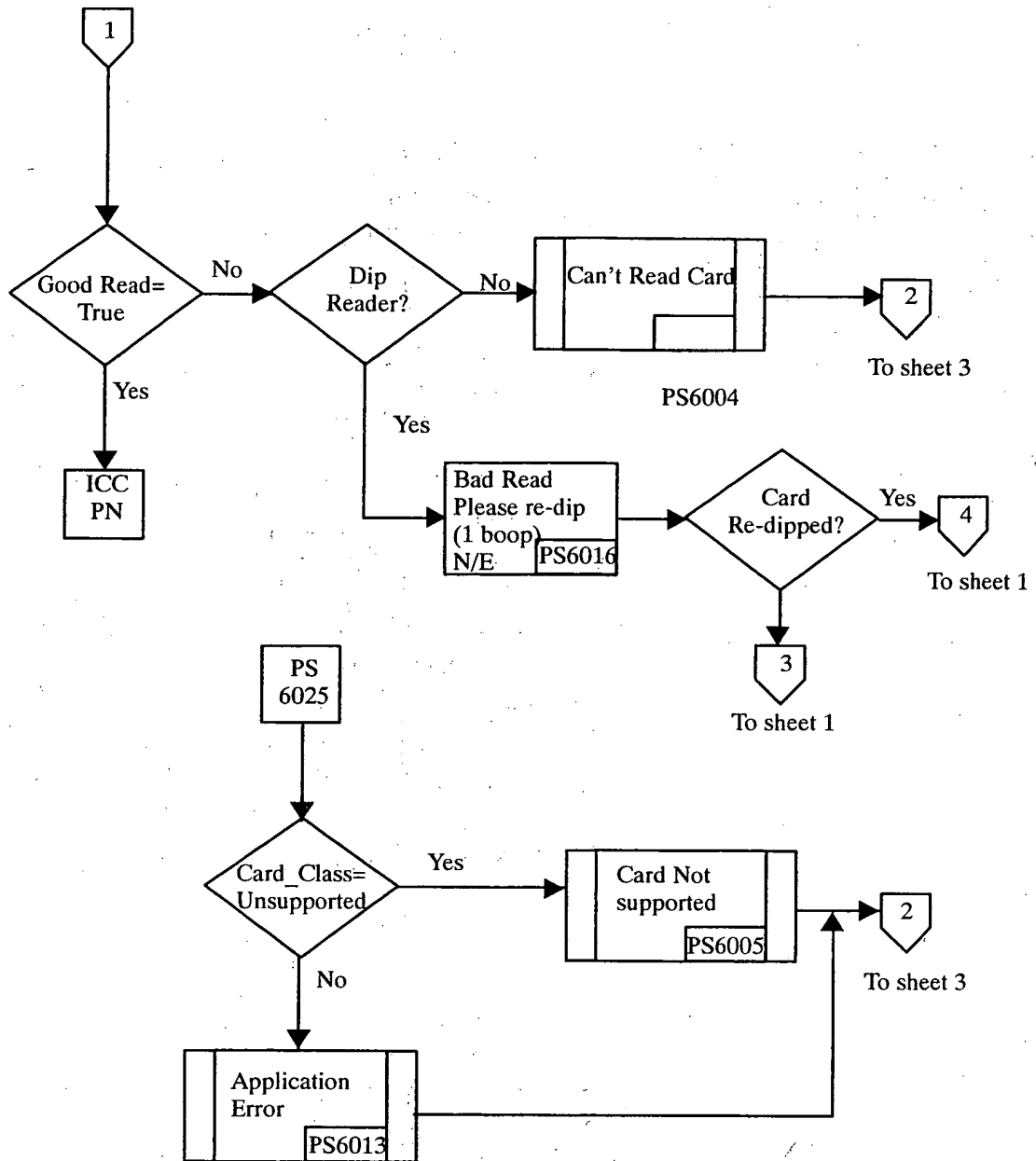


Figure 2-1a. ICC Card Processing Hello and Read Card (cont) (Sheet 2 of 10)

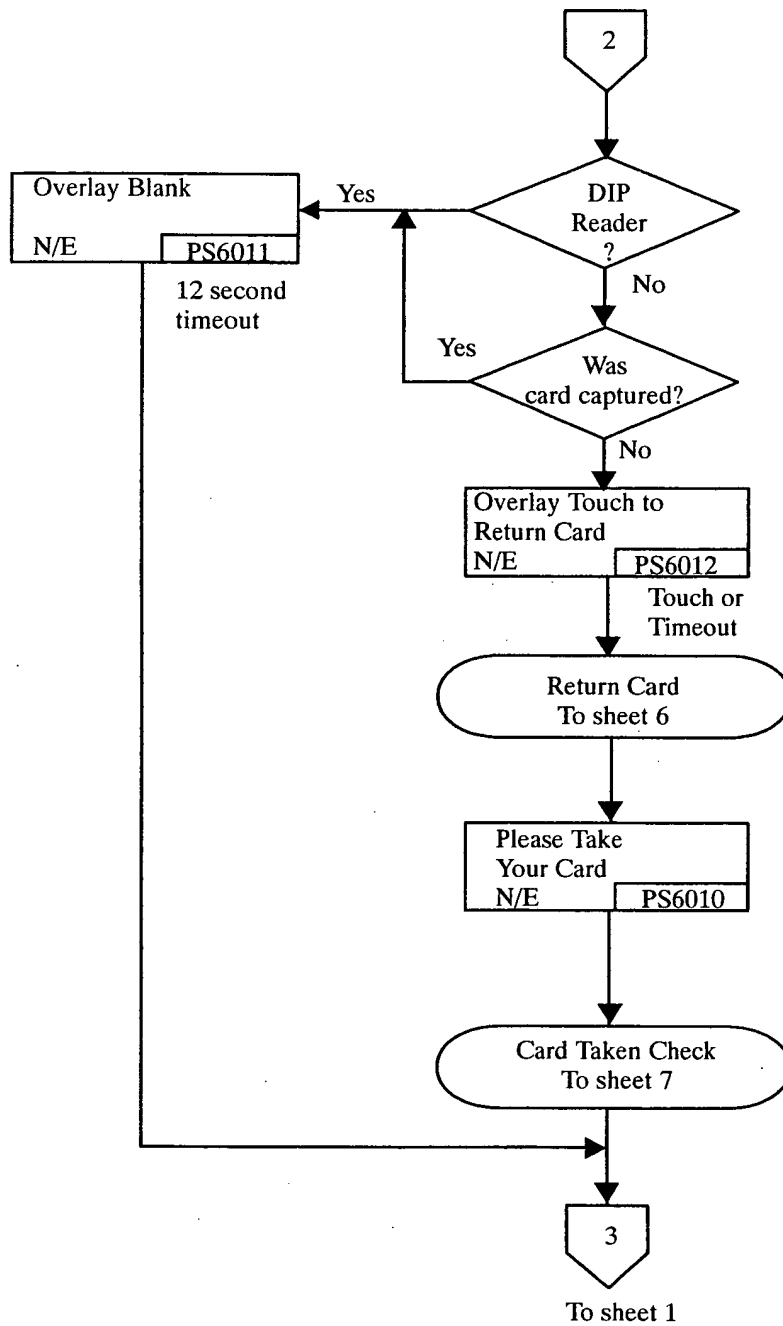


Figure 2-2. ICC Card Processing Exit (Sheet 3 of 10)

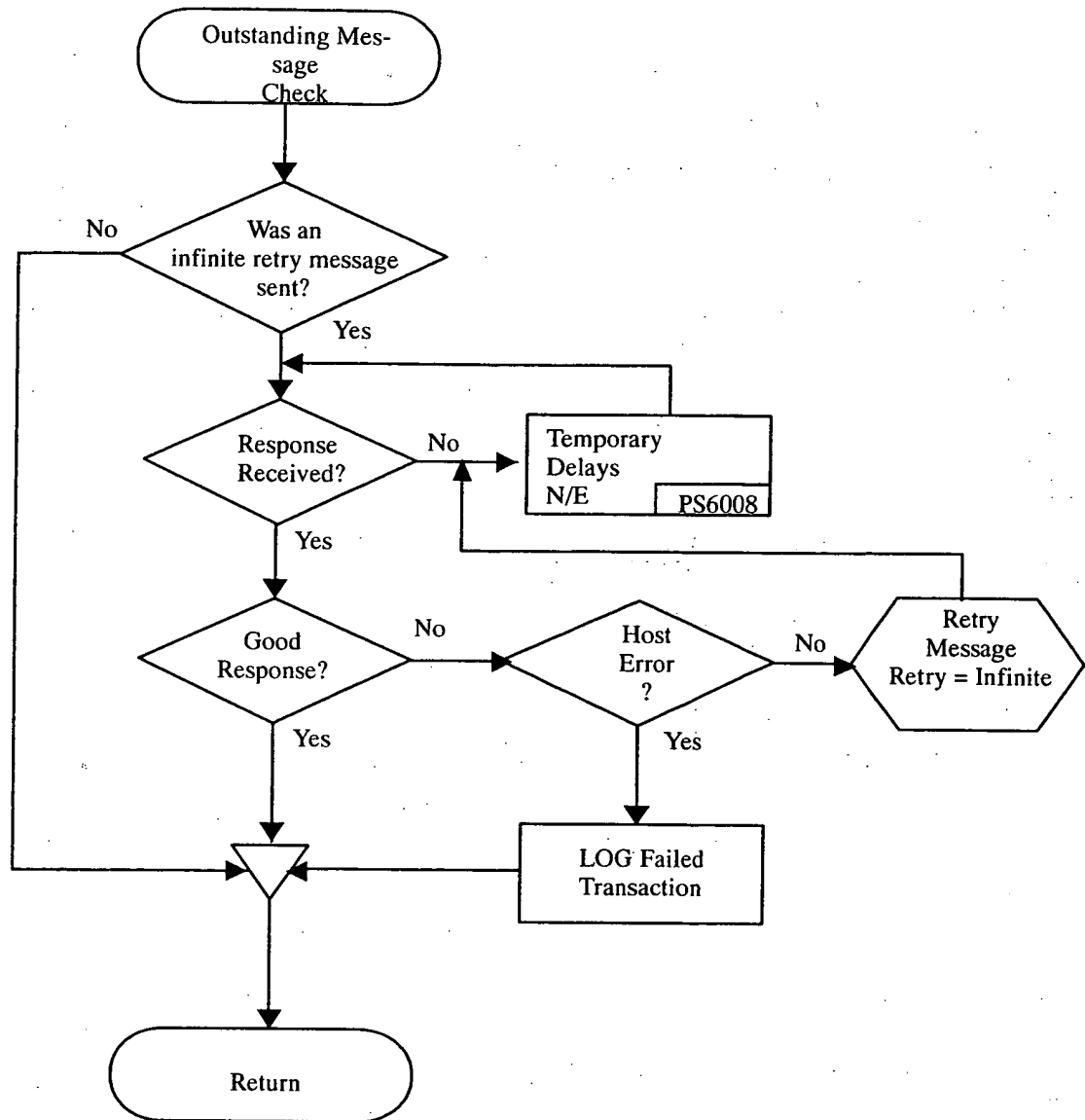


Figure 2-3. ICC Card Processing Outstanding Message Check (Sheet 4 of 10)

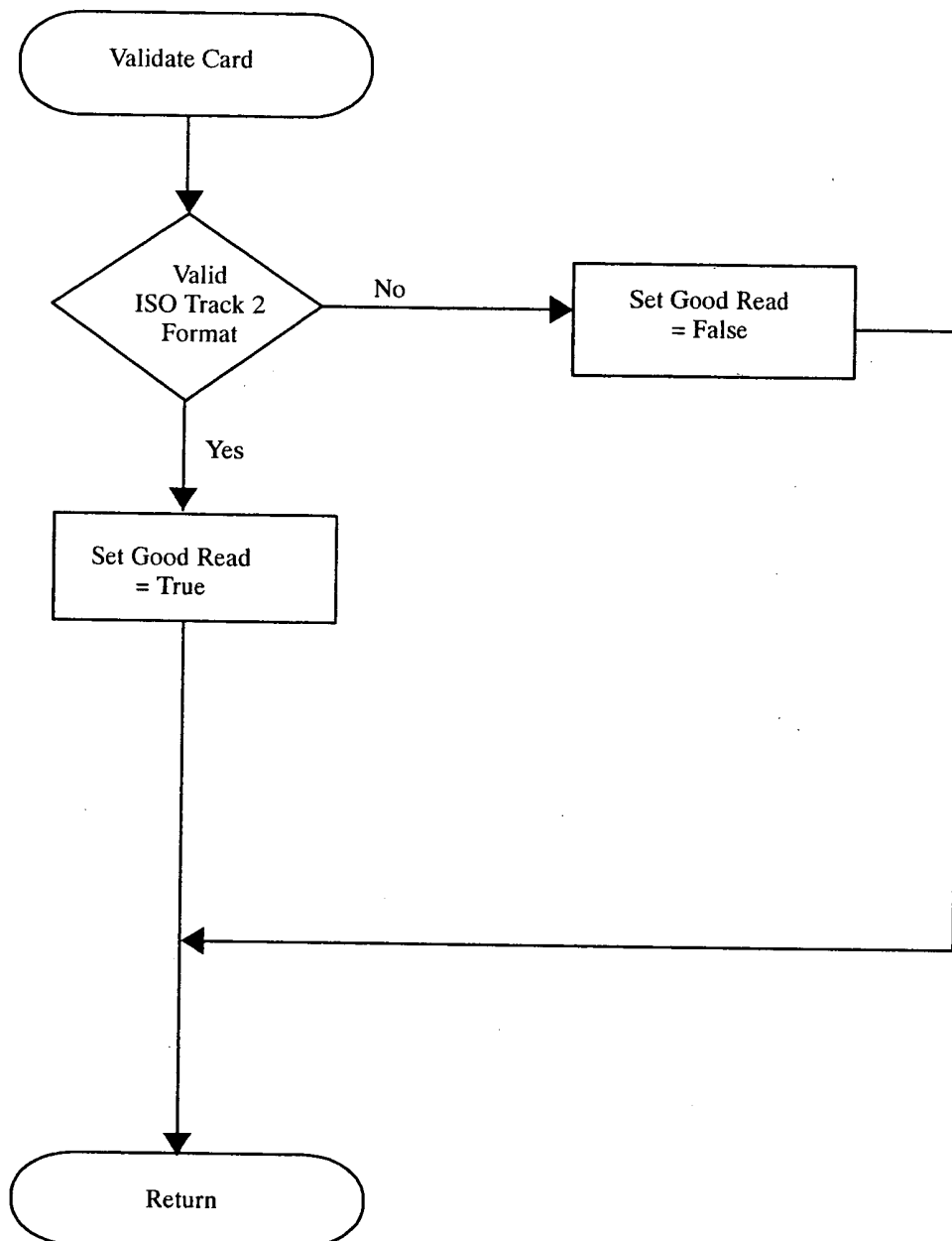


Figure 2-4. ICC Card Processing Validate Card (Sheet 5 of 10)

Standalone Card Processing

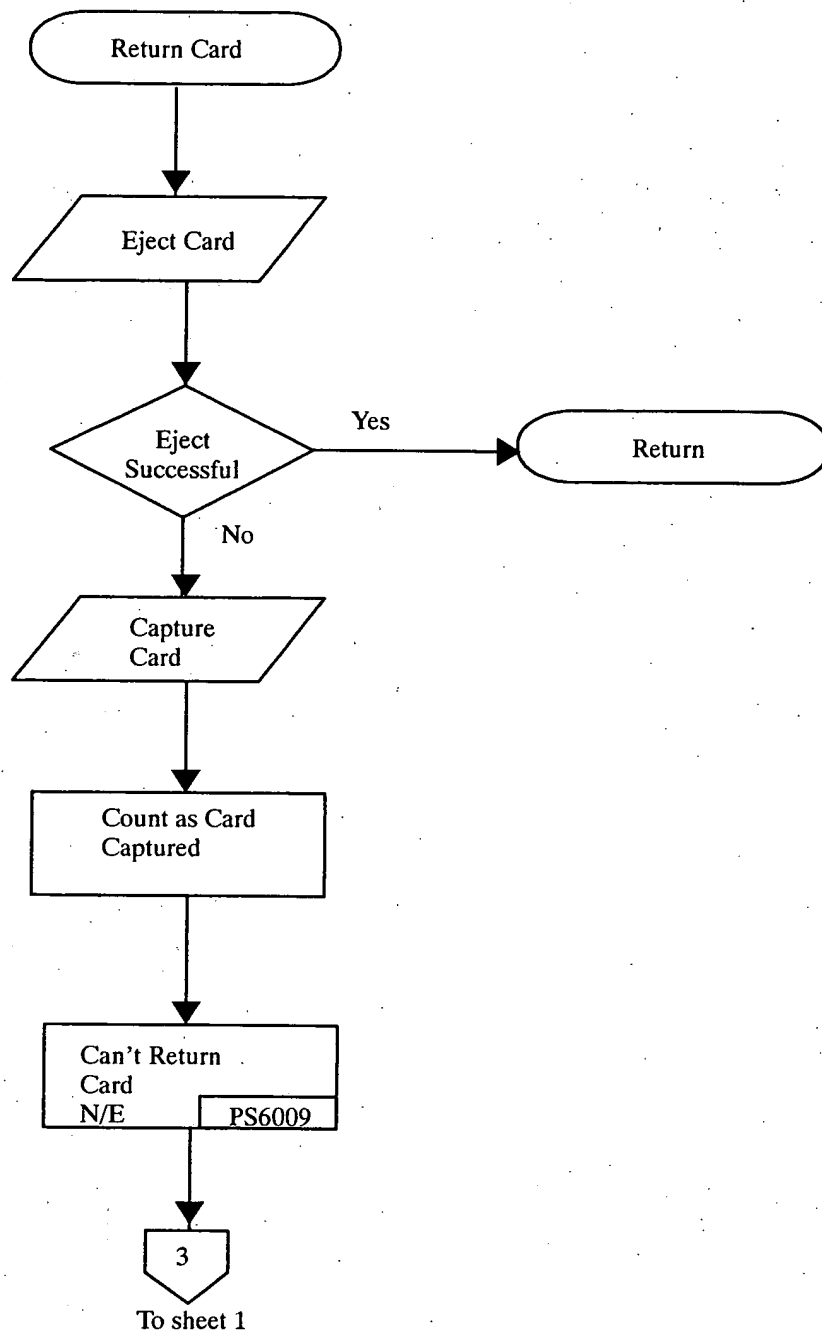


Figure 2-5. ICC Card Processing Return Card (Sheet 6 of 10)

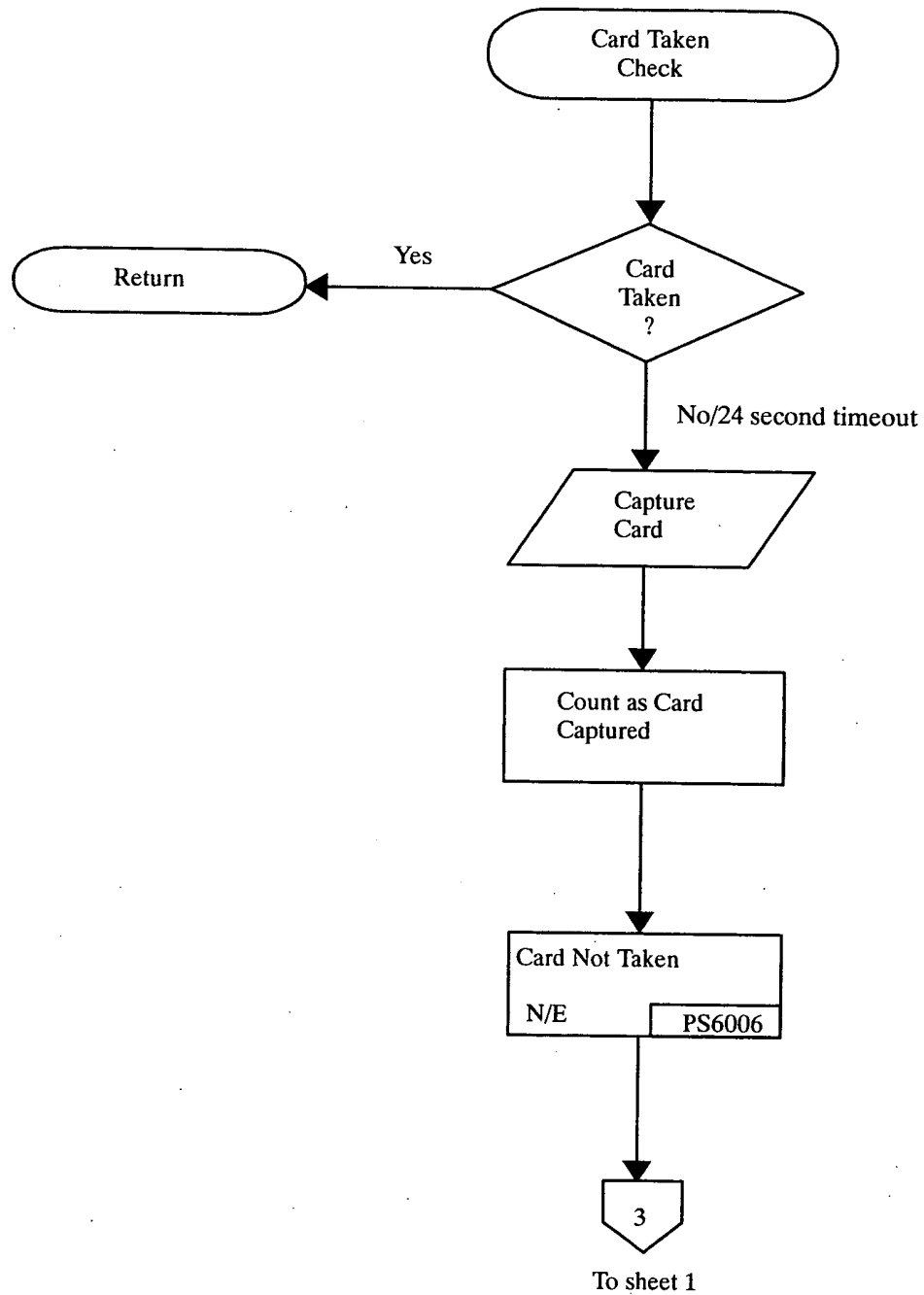


Figure 2-6. ICC Card Processing Card Taken Check (Sheet 7 of 10)

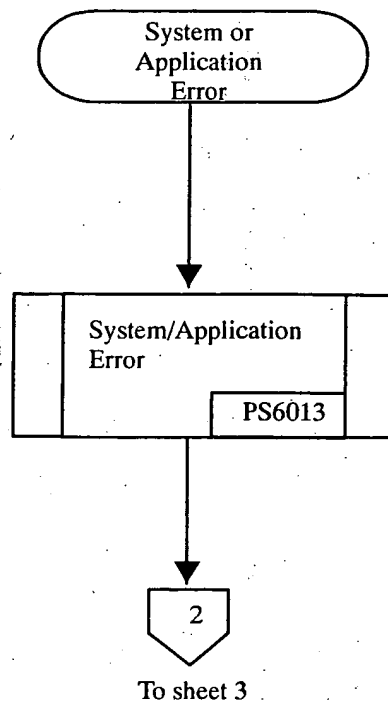


Figure 2-7. ICC Card Processing System or Application Error (Sheet 8 of 10)

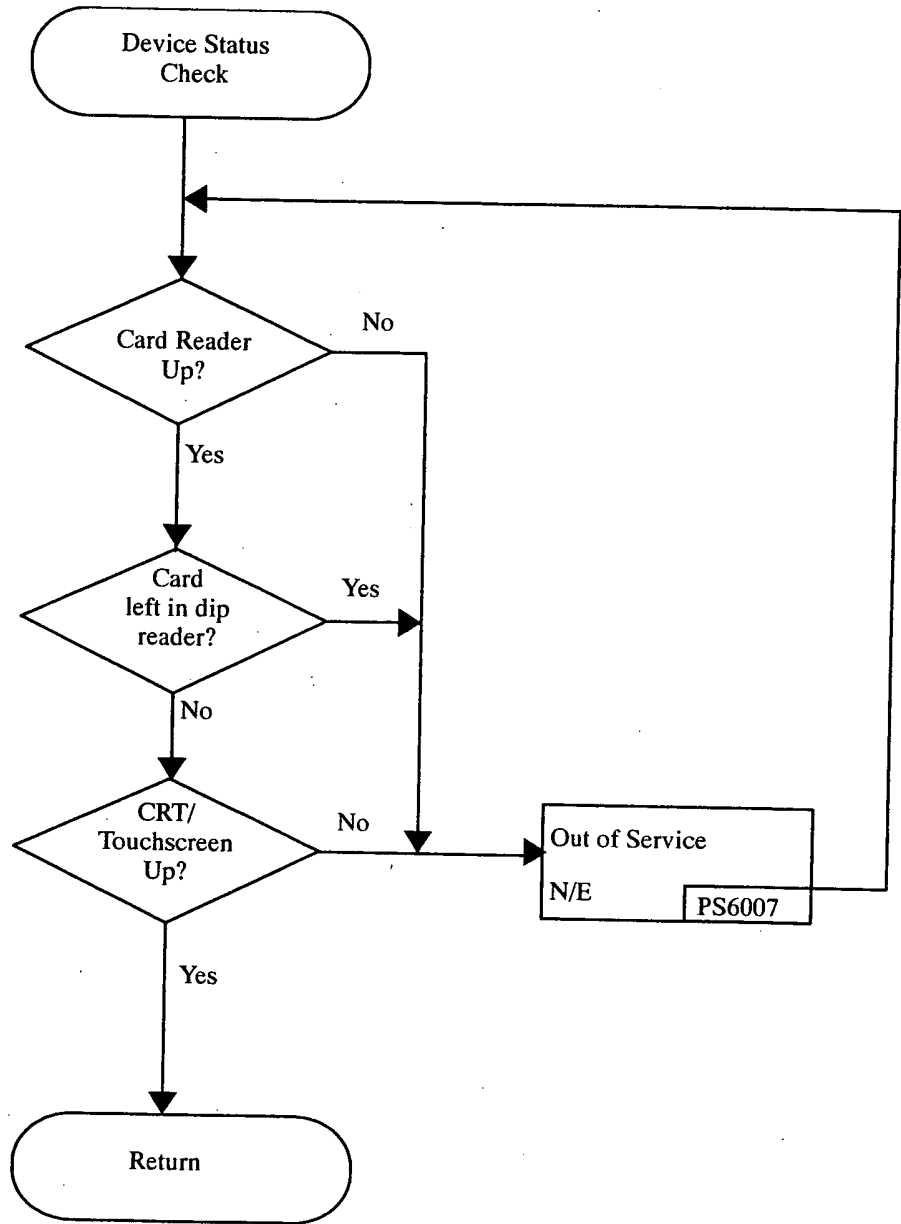


Figure 2-8. ICC Card Processing Device Status Check (Sheet 9 of 10)

Standalone Card Processing

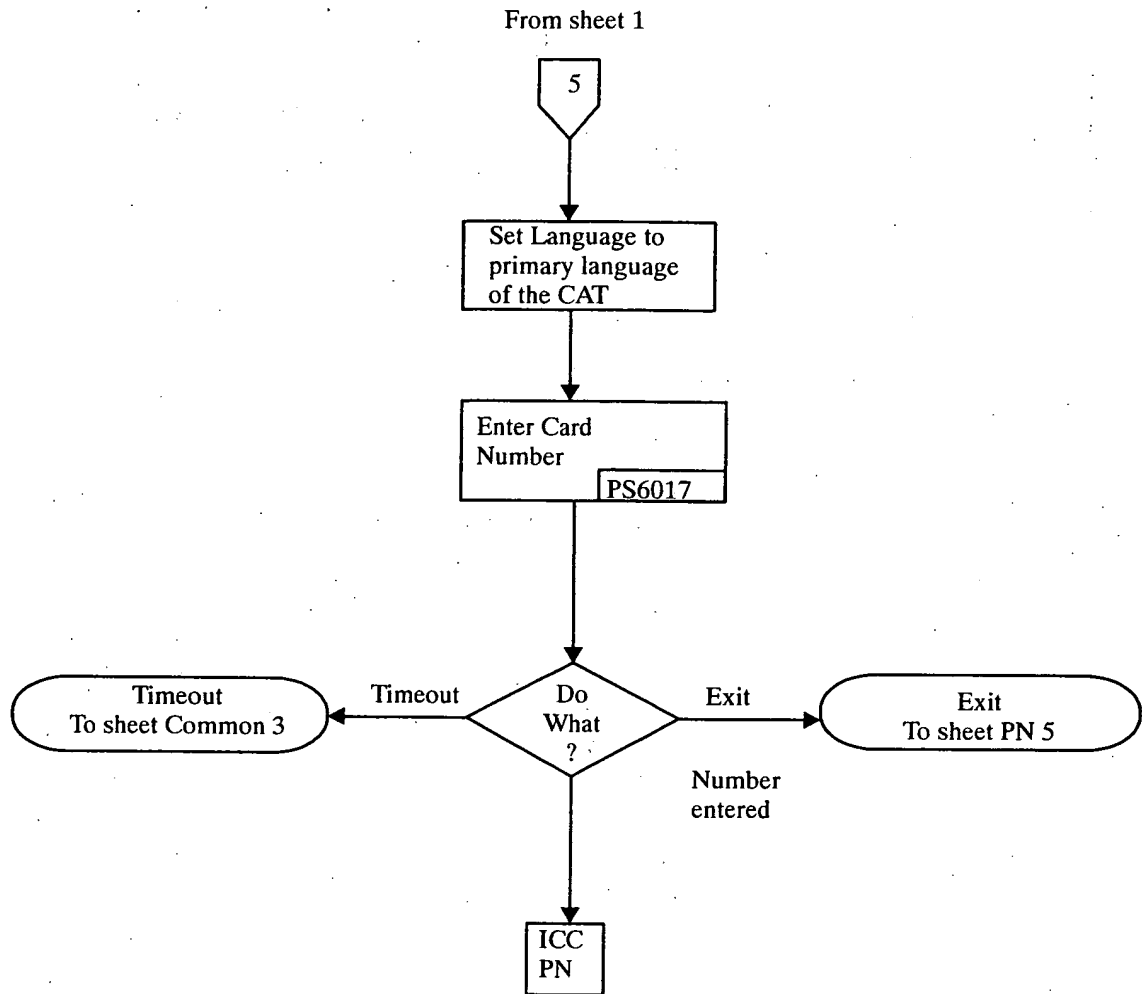


Figure 2-9. PC CAT Cardless Access (Sheet 10 of 10)

2.4 Screens

This section shows the screens and standard data elements for the ICC Standalone Card Processing application.

Standard Data Elements

96-0037-00

Standard Data Elements: Screen PS6000 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card1a	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport- "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card1b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>

Standard Data Elements: Screen PS6000 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
hello2	O	X(38)	C	<p>If the secondary language of this CAT is English, display one of the following based on time of day:</p> <p>Morning - "Hello - May I help you?"</p> <p>Afternoon - "Hello - May I help you?"</p> <p>Evening - "Hello - May I help you?"</p> <p>Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.</p>
hello2a	O	X(38)	C	<p>Display one of the following based on time of day:</p> <p>Morning - blank</p> <p>Afternoon - blank</p> <p>Evening - blank</p>
hello2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6000 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card2a	O	X(38)	C	<p>If the secondary language of this CAT is English, display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card2aC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>
ins_card2bC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1.

Screen PS6000A. One Language Hello

```

      1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 7 greeting
8 |                                     | 8 greeting1 not shown
9 |                                     | 9
10 |                                    | 10
11 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 11 ins_card1
12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 ins_card1a
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 ins_card1b
14 |                                     | 14
15 |                                     | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 | © Citicorp 1990, 1995           | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS6000A (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/ transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card1a	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card1b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>

Screen Transition: See Figure 2-1.

Screen PS6001. Two Language Hello - Alt

```

1111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 1 greeting
2 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 2 greeting1 not shown
3 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 3 ins_card1
4 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 4 ins_card1a
5 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 5 ins_card1b
6 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 6
7 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 7
8 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 8
9 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 9
10|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 10
11|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 11 hello2/hello2C
12|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 12 hello2a not shown
13|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 13 ins_card2/ins_card2C
14|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 14 ins_card2a/ins_card2aC
15|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 15 ins_card2b/ins_card2bC
16|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 16
17|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 17
18|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 18
19|© Citicorp 1990, 1995| 19
20|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS6001 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card1a	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card1b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>

Standard Data Elements: Screen PS6001 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
hello2	O	X(38)	C	<p>If the secondary language of this CAT is English, display one of the following based on time of day:</p> <p>Morning - "Hello - May I help you?"</p> <p>Afternoon - "Hello - May I help you?"</p> <p>Evening - "Hello - May I help you?"</p> <p>Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.</p>
hello2a	O	X(38)	C	<p>Display one of the following based on time of day:</p> <p>Morning - blank</p> <p>Afternoon - blank</p> <p>Evening - blank</p>
hello2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6001 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card2a	O	X(38)	C	<p>If the secondary language of this CAT is English, display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card2aC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>
ins_card2bC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1.

Screen PS6001A. One Language Hello - Alt

111111111122222222223333333334	
1234567890123456789012345678901234567890	
1	1
2	2
3	3
4	4
5	5 greeting
6	6 greeting1 not shown
7	7
8	8 ins_card1
9	9 ins_card1a
10	10 ins_card1b
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

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Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning- "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS60001A (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card1a	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport- "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card1b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>

Screen Transition: See Figure 2-1.

Screen PS6002. Hello with Button - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |      Hello - May I help you?      | 1
2 |                                  | 2 greeting not shown
3 |                                  | 3 greeting1 not shown
4 |                                  | 4
5 |      Please put your card in the slot | 5
6 |      and take it out - so I can help you. | 6
7 |                                  | 7
8 |                                  | 8
9 |                                  | 9
10 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 10 hello2/hello2C
11 |                                  | 11 hello2a not shown
12 |                                  | 12
13 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 13 ins_card2/ins_card2C
14 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 14 ins_card2a/ins_card2aC
15 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 15 ins_card2b/ins_card2bC
16 |                                  | 16
17 | +---+ Touch here if you don't have your card. | 17
18 | +---+ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 18 no_card/no_cardC
19 |                                  | 19
20 |      © Citicorp 1990, 1995      | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 AM to noon, "afternoon" is from noon to 6:00 PM, and "evening" is from 6:00 PM to 6:00 AM.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS6002 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
hello2	O	X(38)	C	If the secondary language of this CAT is English, display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?"
hello2a	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank
hello2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2	O	X(38)	C	If the secondary language of this CAT is English, display "Please put your card in the slot".
ins_card2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2a	O	X(38)	C	If the secondary language of this CAT is English, display "and take it out - so I can help you."
ins_card2aC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2b	O	X(39)	C	If the secondary language of this CAT is English, display blank.
ins_card2bC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
no_card	O	X(45)	L	If the secondary language of this CAT is English, display "Touch here if you don't have your card."
no_cardC	O	C(16)	L	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1.

Screen PS6002A. Hello With Button - One Language

```

111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |      Hello - May I help you?      | 7
8 |                                     | 8
9 |                                     | 9
10 |      Please put your card in the slot      | 10
11 | and take it out - so I can help you.      | 11
12 |                                     | 12
13 |                                     | 13
14 |                                     | 14
15 |                                     | 15
16 |                                     | 16
17 | +---+                                     | 17
18 | +---+ Touch here if you don't have your card. | 18
19 |                                     | 19
20 |      © Citicorp 1990, 1995      | 20
+-----+

```

Screen Transition: See Figure 2-1.

Screen PS6004. Can't Read Card - Two Languages

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry.  I can't read your card | 3
4 | right now.                            | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 cant_read1/cant_read1C
14| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 cant_read1a/cant_read1aC
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
cant_read1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't read your card".
cant_read1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
cant_read1a	O	X(38)	L	If the secondary language of this CAT is English, display "right now."
cant_read1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1a.

Screen PS6004A. Can't Read Card - One Language

111111111122222222223333333334
1234567890123456789012345678901234567890

1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9	I'm sorry. I can't read your card	9
10	right now.	10
11		11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 2-1a.

Screen PS6005. Card Not Supported - Two Languages

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     1
2 |                                     2
3 | I'm sorry. I can't handle this card 3
4 | yet.                                4
5 |                                     5
6 |                                     6
7 |                                     7
8 |                                     8
9 |                                     9
10|                                     10
11|                                     11
12|                                     12
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 13 bad_card1/bad_card1C
14| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 14 bad_card1a/bad_card1aC
15|                                     15
16|                                     16
17|                                     17
18|                                     18
19|                                     19
20|                                     20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
bad_card1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't handle this card".
bad_card1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
bad_card1a	O	X(38)	L	If the secondary language of this CAT is English, display "yet."
bad_card1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1a.

Screen PS6005A. Card Not Supported - One Language

```
111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | I'm sorry. I can't handle this card | 9
10| yet.                               | 10
11|                                     | 11
12|                                     | 13
13|                                     | 14
14|                                     | 12
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
```

Screen Transition: See Figure 2-1a.

Screen PS6006. Card Not Taken - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | I'm sorry. You haven't taken your | 1
2 | card. I'm holding your card for | 2
3 | your protection. | 3
4 | | 4
5 | | 5
6 | | 6
7 | | 7
8 | | 8
9 | | 9
10 | | 10
11 | | 11
12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 not_taken1/not_taken1C
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 not_taken1a/not_taken1aC
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 not_taken1b/not_taken1bC
15 | | 15
16 | | 16
17 | | 17
18 | | 18
19 | | 19
20 | | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
not_taken1	O	X(38)	L	If the secondary language of this CAT is English, then display "I'm sorry. You haven't taken your".
not_taken1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
not_taken1a	O	X(38)	L	If the secondary language of this CAT is English, display "card. I'm holding your card for".
not_taken1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
not_taken1b	O	X(38)	L	If the secondary language of this CAT is English, display "your protection."
not_taken1bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-6.

Screen PS6006A. Card Not Taken - One Language

1111111111222222222233333333334
1234567890123456789012345678901234567890

1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9	I'm sorry. You haven't taken your	9
10	card. I'm holding your card for	10
11	your protection.	11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 2-6.

Screen PS6007. Out of Service - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 | I'm sorry. I can't help you right now. | 4
5 | Please try again later.               | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 oos1/oos1C
14| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 oos1a/oos1aC
15| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 15 oos1b/oos1bC
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
oos1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't help you right now."
oos1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
oos1a	O	X(38)	L	If the secondary language of this CAT is English, display "Please try again later."
oos1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
oos1b	O	X(38)	L	If the secondary language of this CAT is English, leave blank.
oos1bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-3.

Screen PS6007A. Out of Service - One Language

```
1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | I'm sorry. I can't help you right now. | 9
10|                                     | 10
11| Please try again later.               | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
```

Screen Transition: See Figure 2-3.

Screen PS6008. Temporary Delays - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. We are having some     | 3
4 | temporary delays. Please wait a few | 4
5 | moments and try again.             | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 delays1/delays1C
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 delays1a/delays1aC
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 delays1b/delays1bC
15 |                                    | 15
16 |                                    | 16
17 |                                    | 17
18 |                                    | 18
19 |                                    | 19
20 |                                    | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
delays1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. We are having some".
delays1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
delays1a	O	X(38)	L	If the secondary language of this CAT is English, display "temporary delays. Please wait a few".
delays1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
delays1b	O	X(38)	L	If the secondary language of this CAT is English, display "moments and try again."
delays1bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-3.

Screen PS6008A. Temporary Delays - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 | I'm sorry. We are having some      | 8
9 | temporary delays.                  | 9
10|                                     | 10
11| Please wait a few moments and      | 11
12| try again.                         | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Screen Transition: See Figure 2-3.

Screen PS6009. Can't Return Card - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry.  I can't return your card | 3
4 | right now.                               | 4
5 |                                     | 5
6 | Please use the phone next to you       | 6
7 | to call Customer Service.              | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 cant_return1/cant_return1C
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 cant_return1a/cant_return1aC
14|                                     | 14
15| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 15 call_cs1/call_cs1C
16| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 16 call_cs1a/call_cs1aC
17| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 17 call_cs1b/call_cs1bC
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
cant_return1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't return your card".
cant_return1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
cant_return1a	O	X(38)	L	If the secondary language of this CAT is English, display "right now."
cant_return1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
call_cs1	O	X(38)	L	If the secondary language of this CAT is English, display "Please use the phone next to you".
call_cs1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6009 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
call_cs1a	O	X(38)	L	If the secondary language of this CAT is English, display "to call Customer Service."
call_cs1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
call_cs1b	O	X(38)	L	If the secondary language of this CAT is English, leave blank.
call_cs1bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-5.

Screen PS6009A. Can't Return Card - One Language

```
1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1|                                     |1
2|                                     |2
3|                                     |3
4|                                     |4
5|                                     |5
6| I'm sorry. I can't return your card |6
7| right now.                          |7
8|                                     |8
9| Please use the phone next to you    |9
10| to call Customer Service.          |10
11|                                     |11
12|                                     |12
13|                                     |13
14|                                     |14
15|                                     |15
16|                                     |16
17|                                     |17
18|                                     |18
19|                                     |19
20|                                     |20
+-----+
```

Screen Transition: See Figure 2-5.

Screen PS6010. Please Take Your Card - Two Languages

```

11111111112222222222333333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |           Please take your card.   | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 13 take_card1/take_card1C
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
take_card1	O	X(38)	C	If the secondary language of this CAT is English, display "Please take your card."
take_card1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-2.

Screen PS6010A. Please Take Your Card - One Language

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
+-----+	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
Please take your card.	
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
+-----+	

Screen Transition: See Figure 2-2.

Overlay PS6011. Blank

111111111122222222223333333334																			
1234567890123456789012345678901234567890																			
1																			1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12
13																			13
14																			14
15																			15
16																			16
17																			17
18																			18
19																			19
20																			20

Screen Transition: See Figure 2-2.

Overlay PS6012. Touch to Return Card - Two Languages

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19 touch1/touch1C
20	20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
touch1	O	X(51)	C	If the secondary language of this CAT is English, display "Please touch here to return your card".
touch1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-2.

Overlay PS6012A: Touch to Return Card - Two Languages

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	Please touch here to return your card
20	

Screen Transition: See Figure 2-2.

Screen PS6013. Application Error - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1|                                     1
2|                                     2
3| I'm sorry. I can't do that right now. 3
4|                                     4
5|                                     5
6|                                     6
7|                                     7
8|                                     8
9|                                     9
10|                                    10
11|                                    11
12|                                    12
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 13 error1/error1C
14| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 14 error1a/error1aC
15|                                    15
16|                                    16
17|                                    17
18|                                    18
19|                                    19
20|                                    20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
error1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't do that right now."
error1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
error1a	O	X(38)	L	If the secondary language of this CAT is English, leave blank.
error1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-7.

Screen PS6013A. Application Error - One Language

```
111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10| I'm sorry. I can't do that right now. | 10
11|                                     | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
```

Screen Transition: See Figure 2-7.

Screen PS6014. Please Take Card Out - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1|                                     1|
2|                                     2|
3| Please take your card out -         3|
4| so I can help you.                  4|
5|                                     5|
6|                                     6|
7|                                     7|
8|                                     8|
9|                                     9|
10|                                    10|
11|                                    11|
12|                                    12|
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 13 take_out1/take_out1C
14| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 14 take_out1a/take_out1aC
15|                                    15|
16|                                    16|
17|                                    17|
18|                                    18|
19|                                    19|
20|                                    20|
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
take_out1	O	X(38)	L	If the secondary language of this CAT is English, display "Please take your card out - "
take_out1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
take_out1a	O	X(38)	L	If the secondary language of this CAT is English, display "so I can help you.".
take_out1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1.

Comments: This screen should "boop" once per second until either the card is removed or it times out after 17.5 seconds.

Screen PS6014A. Please Take Card Out - One Language

```
111111111122222222223333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | Please take your card out -      | 9
10| so I can help you.                | 10
11|                                   | 11
12|                                   | 12
13|                                   | 13
14|                                   | 14
15|                                   | 15
16|                                   | 16
17|                                   | 17
18|                                   | 18
19|                                   | 19
20|                                   | 20
+-----+
```

Screen Transition: See Figure 2-1.

Comments: This screen should “boop” once per second until either the card is removed or it times out after 17.5 seconds.

Screen PS6015. Second Take Out Card - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. I can't help you while | 3
4 | your card is in the slot.         | 4
5 |                                     | 5
6 | Please take your card out so we  | 6
7 | can start again.                  | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 12 cant_help1/cant_help1C
13|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 13 cant_help1a/cant_help1aC
14|                                     | 14
15|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 15 start_again1/start_again1C
16|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 16 start_again1a/start_again1aC
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
cant_help1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't help you while".
cant_card1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
cant_help1a	O	X(38)	L	If the secondary language of this CAT is English, display "your card is in the slot".
cant_help1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
start_again1	O	X(38)	L	If the secondary language of this CAT is English, display "Please take your card out so we".
start_again1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6015 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
start_again1a	O	X(38)	L	If the secondary language of this CAT is English, display "can start again."
start_again1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1.

Comments: No "booping"; timeout is 120 seconds.

Screen PS6015A. Second Take Out Card - One Language

```
111111111122222222223333333334.  
1234567890123456789012345678901234567890  
+-----+  
1 | 1  
2 | 2  
3 | 3  
4 | 4  
5 | 5  
6 | 6  
7 | 7  
8 | I'm sorry. I can't help you while  
9 | your card is in the slot.  
10 | 10  
11 | Please take your card out so we  
12 | can start again.  
13 | 13  
14 | 14  
15 | 15  
16 | 16  
17 | 17  
18 | 18  
19 | 19  
20 | 20  
+-----+
```

Screen Transition: See Figure 2-1.

Comments: No "booping"; timeout is 120 seconds.

Screen PS6016. Bad Read, Please Re-Dip - Two Languages

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry.  I couldn't read your card | 3
4 | that time.                               | 4
5 |                                     | 5
6 | Please put your card in the slot         | 6
7 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 7 ins_card1a
8 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 8 ins_card1b
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 couldnt_read1/couldnt_read1C
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 couldnt_read1a/couldnt_read1aC
14 |                                    | 14
15 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 15 ins_card2/ins_card2C
16 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 16 ins_card2a/ins_card2aC
17 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 17 ins_card2b/ins_card2bC
18 |                                    | 18
19 |                                    | 19
20 |                                    | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1a	O	X(38)	L	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>

Standard Data Elements: Screen PS6016 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1b	O	X(38)	L	Display one of the following based on the type of CAT hardware in use: CAT/dip - "so I can help you." CAT/transport - blank DUCAT/transport - blank DUCAT/dip - "so I can help you." PC CAT - blank
couldnt_read1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I couldn't read your card".
couldnt_read1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
couldnt_read1a	O	X(38)	L	If the secondary language of this CAT is English, display "that time.".
couldnt_read1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
ins_card2	O	X(38)	L	If the secondary language of this CAT is English, display "Please put your card in the slot".
ins_card2C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
ins_card2a	O	X(38)	L	If the secondary language of this CAT is English, display one of the following based on the type of CAT hardware in use: CAT/dip - "to your right and take it out -" CAT/transport - "above." DUCAT/transport - "to your left." DUCAT/dip - "to your left and take it out -" PC CAT - "and take it out - so I can help you."
ins_card2aC	O	C(17)	L	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6016 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card2b	O	X(38)	L	Display one of the following based on the type of CAT hardware in use: CAT/dip - "so I can help you." CAT/transport - blank DUCAT/transport - blank DUCAT/dip - "so I can help you." PC CAT - blank
ins_card2bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1a.

Comments: Screen should "boop" once when first presented. Timeout is 7 seconds.

Screen PS6016A. Bad Read, Please Re-Dip - One Language

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                           | 1
2 |                                           | 2
3 |                                           | 3
4 |                                           | 4
5 |                                           | 5
6 |                                           | 6
7 |                                           | 7
8 | I'm sorry. I couldn't read your card | 8
9 | that time.                            | 9
10|                                           | 10
11| Please put your card in the slot      | 11
12| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 ins_card1a
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 ins_card1b
14|                                           | 14
15|                                           | 15
16|                                           | 16
17|                                           | 17
18|                                           | 18
19|                                           | 19
20|                                           | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1a	O	X(38)	L	Display one of the following based on the type of CAT hardware in use: CAT/dip - "to your right and take it out -" CAT/transport - "above." DUCAT/transport - "to your left." DUCAT/dip - "to your left and take it out -" PC CAT - "and take it out - so I can help you."

Standard Data Elements: Screen PS6016A (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1b	O	X(38)	L	Display one of the following based on the type of CAT hardware in use: CAT/dip - "so I can help you." CAT/transport - blank DUCAT/transport - blank DUCAT/dip - "so I can help you." PC CAT - blank

Screen Transition: See Figure 2-1a.

Comments: Screen should "boop" once when first presented. Timeout is 7 seconds.

Screen PS6017. Enter Card Number

```

1111111111222222222233333333334
1234567890123456789012345678901234567890

```

1					1
2	Please tell me your card number.				2
3	Then touch ENTER.				3
4	(Touch CLEAR to erase.)				4
5	+-----+				5
6	-----				6 card_id
7	+-----+				7
8					8
9	1	2	3		9
10					10
11	+-----+			ENTER	11
12					12
13	4	5	6		13
14					14
15	+-----+				15
16				CLEAR	16
17	7	8	9		17
18	+-----+			+-----+	18
19				EXIT	19
20	+-----+			+-----+	20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
card_id	I	9(19)	L	Must be ≥ 6 and ≤ 19 digits. As the number is entered, display the digits from left to right.

Screen Transition: See Figure 2-9.

PRC PS6025. Off-Us Local Processing

Screen Transition: See Figure 2-1a.

Comments: At this point, the ICC Generic Product Select application returns if it cannot process the card.

The main purpose of this entry point is to allow local Off-Us processing of cards that are either not recognized by ICC or recognized as local Off-Us by ICC.

For ICC Standalone Card Processing, there is no local Off-Us support, so it is expected that the ICC Generic Product Select application would return a card class of "unsupported". If so, the unsupported card error screen is displayed and the session is ended, returning the card if necessary.

If any other card class is returned, it is treated as a bad card read.

This Page Blank (uspto)

Appendix A

CAT Application Logs

The following Product Select events are logged by the ICC Standalone Card Processing application:

- Start of Session
- End of Session
- Nonzero Action Code (AC) Response for a Retry Message

Table A-1 details what data elements should be logged for each event.

Table A-1. Product Select Log Elements

Data Element	Start of Session	End of Session	Nonzero AC on Retry Message
Transaction Date	Yes	Yes	Yes
Transaction Time	Yes	Yes	Yes
Transaction Type Code	"SOS"	"EOS"	"RETRY_MSG"
Card Number	Yes	Yes	Yes
Completion Code	No	Yes	Yes
Completion Reason Code	No	Yes	Yes
Record Given Flag	No	Yes	Yes
Card Capture Code	No	Yes ¹	Yes ¹
Card Refused Code	No	Yes ¹	Yes ¹

¹ Log only if set.

Appendix B

CAT Administrative Functions

All ICC Standalone regional businesses use the Administrative application defined by the *Standard CAT Administrative Application Product Specification*, TTI-93-0002.

The Administrative application displays counters for withdrawals of all supported currency types, plus the transaction counters in Table B-1, on Screens 3714, 3715, and 3742.

Table B-1. Counter Definition Configuration Table

Counter Description	OP_Cnt_Cde	Total Flag
English:		
Balance Inquiry	BI	Yes
Transfers	TR	Yes
Records Printed	PR	No
Cards Refused	CR	No
Cards Captured	CC	No
German:		
Kontostandsabfrage	BI	Yes
Interne Ueberw.	TR	Yes
Belege gedruckt	PR	No
Karten abgelehnt	CR	No
Eingezogene Karten	CC	No
French:		
Consulation Solde	BI	Yes
Transferts Internes	TR	Yes
Impression Documents	PR	No
Carte Refusee	CR	No
Carte Capturee	CC	No
Dutch:		
Saldo Consultatie	BI	Yes
Eigen Overschrijving	TR	Yes
Afschrift Documenten	PR	No
Kaart Weigering	CR	No
Kaart Ingehouden	CC	No
Castilian:		
Peticiones de Saldo	BI	Yes
Traspasos	TR	Yes
Resguardos Dados	PR	No
Tarjetas Rehazadas	CR	No
Tarjetas Capturadas	CC	No

Table B-2 and Table B-3 list additional configurable parameters that control other aspects of the Administrative application. If more than one value is indicated, the option is configurable during installation.

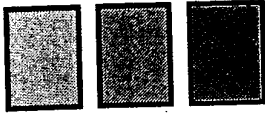
Table B-2. Miscellaneous Administrative Configurable Options

Parameter	Value
Magic Middle (MM) Device Supported	No
Force display of totals and counters before proof	Yes/No
Offer option to proof using host totals	Yes/No
Force proof even if out of balance - no supervisor option	Yes/No
Display cash summary screen after adding cash or setting totals	Yes/No
Force return of CAT to service after exiting from ADMIN	Yes
Check access number (PIN) at front-end instead of locally	Yes/No
Change access number (PIN) supported	Yes/No
Display transaction counters by card class as well as totals	Yes/No
Language	English, German, French, Dutch, Castilian

Table B-3. Card Class Name Configurable Table

Card Class	Card Class Name
02	ICC Citicards
04	ICC Credit Cards
10-13	Non-Citicorp Cards

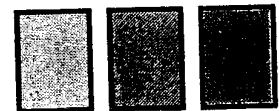
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Standalone Card Processing for International Citicard (ICC) CAT Application Product Specification

May 23, 1996

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Standalone CAT Application Product Specification*,
A-470-03. It contains information effective with the
installation of Release ICC603.

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Application Product Specification*

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Preface

This Application Product Specification (APS) is one of a series of TTI specifications that define the global CAT products and their ICC applications.

It supports the Global Consumer Bank's (GCB) requirements for Phase 5 of the Global ICC project. The intended audience is GCB and TTI development managers and staff.

This APS applies to, and provides standards for, all CAT and CAT-based Citibanking platforms, including CAT, DUCAT, PC CAT, and production Customer Activated Sales and Service Terminal (CASST).

This APS is organized as follows:

Chapter 1 Introduction

provides an overview of the Card Processing for the ICC Standalone CAT application. It also provides the definitions, terms, conventions, and application defaults used by this application.

Chapter 2 ICC Standalone Card Processing

provides screen flow diagrams and language screens for the Standalone Card Processing.

Appendix A CAT Application Logs

lists the data elements logged for each Card Processing event.

Appendix B CAT Administrative Functions

provides counter displays for withdrawals of all supported currency types.

Conventions

The following convention pertains to this publication:

Where the functionality for all CAT devices is identical, the term "CAT" is used.

Related Reading

The following documents are related to the subject matter of this publication:

- Transaction Technology, Inc., *Release Information Bulletin ICC603*, TTI-96-0001-03, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Common CAT Configuration (CAT.ev) File Parameters*, TTI-96-0003-00, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *CAT/FEP Message-Level Interface Specification, Volume I—Common CAT*, TTI-95-0067-00, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Common CAT 2 Network Error Codes*, TTI-95-0066-00, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Common CAT 2 Specification*, TTI-94-0129-00, TTI, Santa Monica, California, 1995.
- Transaction Technology, Inc., *Global International Citicard (ICC) CAT Application Product Specification*, TTI-96-0037-00, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Portuguese*, A-978, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Chinese*, A-979, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Italian*, A-980, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Korean*, A-981, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Japanese*, A-982, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Greek*, A-983, TTI, Santa Monica, California, 1996.
- Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—French*, A-984, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—German*, A-985, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Dutch*, A-986, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Card Processing for Standalone ICC CAT Application Product Specification—Spanish*, A-987, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Standard CAT Administrative Application Product Specification*, TTI-93-0002-03, TTI, Santa Monica, California, 1995.

*Standalone Card Processing for International Citicard (ICC) CAT
Application Product Specification*

Chapter 8

ICC Card Processing

ICC Standalone Card Processing is the application that controls the start of session, the initial card read, and routing to the generic ICC applications. The Standalone Card Processing Application is used only by ICC CATs that run only ICC applications and no local CAT applications. ICC Standalone CATs accept only ICC cards—no local cards are accepted.

8.1 Languages

Each screen in Standalone Card Processing may be displayed in either one or two languages, depending upon the language configuration of the CAT. If the CAT is configured for two languages, the languages are designated as primary and secondary. If only one language is set in the configuration, it is, by default, the primary language.

For clarity, only the two language screens have been referenced in the flowcharts. The single-language versions have been assigned the same screen number with a designator "A" appended to them. For example, Screen 6007 is the Out of Service - Two Language screen, and Screen 6007A is the Out of Service - One Language screen.

This is the English version of ICC Standalone Card Processing. These screens are used by all ICC Standalone CAT configurations in which English is the primary language. The secondary language may be any other language.

This APS also contains the variable text to use on secondary language portions for all screens where English is the secondary language. For variable text for all non-English languages, see the appropriate ICC language "Phrase by Screen Report".

8.2 Processing Overview

Following are the steps that comprise processing:

3. Check if an infinite retry message was sent. If so, check if a response has been received. Process accordingly.
4. Check the status of the devices. If the card reader or the touchscreen is down, take the CAT out of service. If they are up, continue.
5. Display the appropriate Hello screen. Wait for card insert/dip.
6. When a card is inserted, validate it for valid International Organization for Standardization (ISO) format.
7. If the device is a PC CAT configured for cardless access and the button for cardless access is activated, display a screen to capture the card identification number (CIN).
8. If the read was good, go to the ICC Generic Product Select (PN) application, whether the card was found in the ICC language table or not. If the read was not good, display an appropriate error screen and either time out (dip readers), or go through the Return Card routine (transport readers).
9. If the PN application is unable to process this card, it is returned to this application. For a Standalone ICC, it should always return a card class of unsupported if it cannot process the card. Otherwise, it is treated as a bad card read. In either case, display an appropriate error screen and either time out (dip readers) or go through the Return Card routine (transport readers).
10. Restart the application.

8.3 Flowcharts

This section provides the flowcharts that describe the ICC Card Processing application.

ICC Card Processing

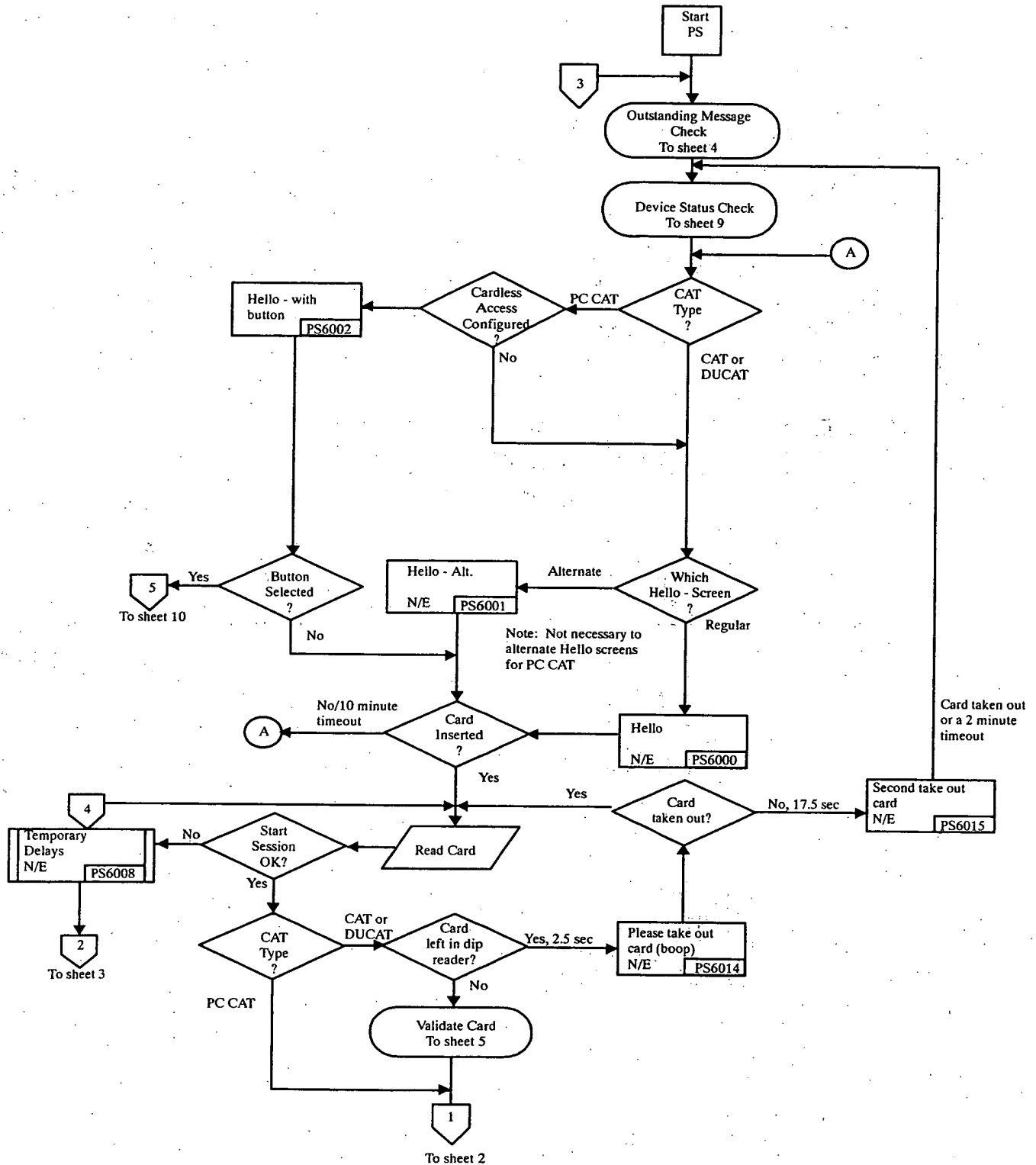


Figure 8-1. ICC Card Processing Hello and Read Card (Sheet 1 of 10)

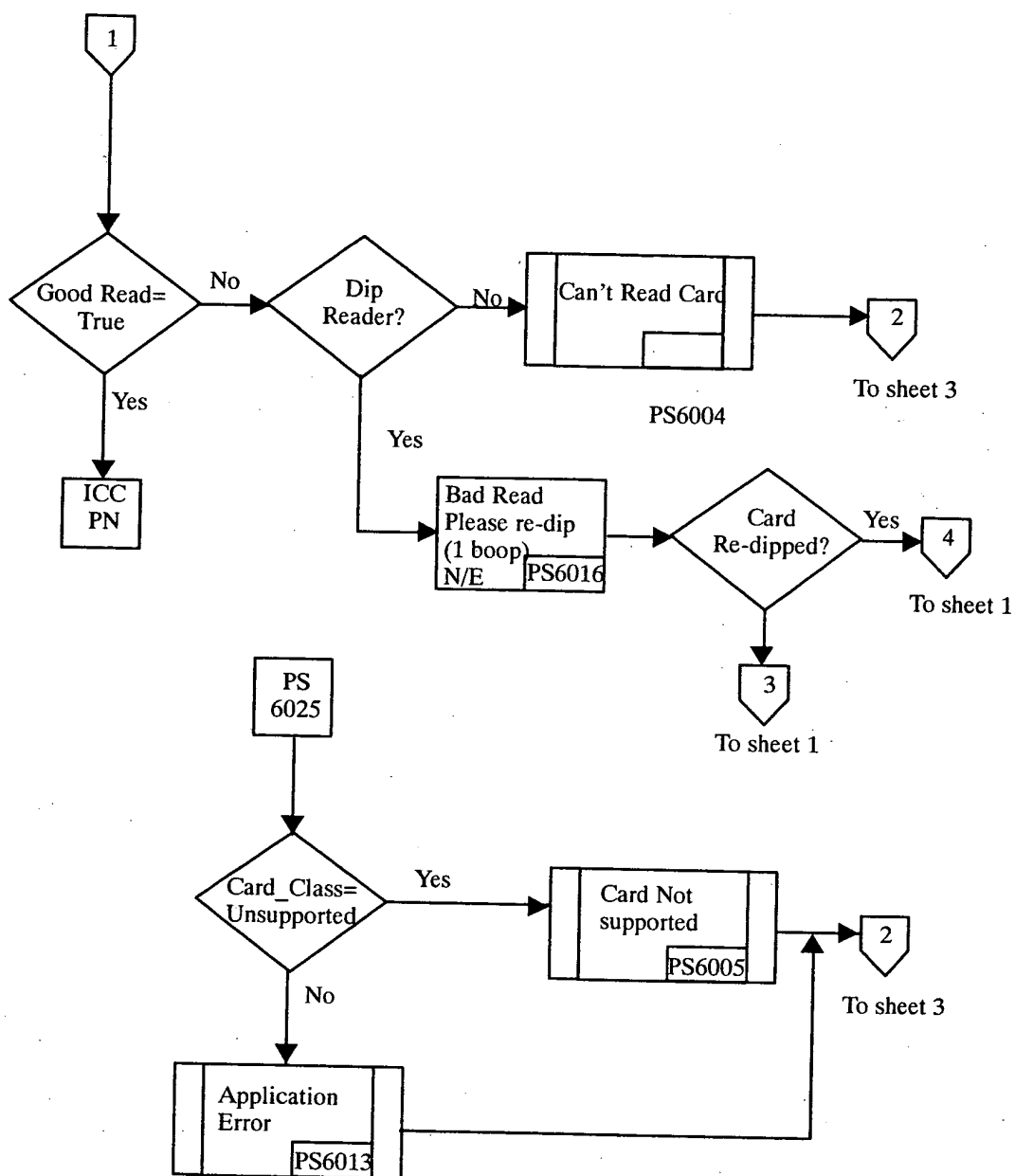


Figure 2-1a. ICC Card Processing Hello and Read Card (cont) (Sheet 2 of 10)

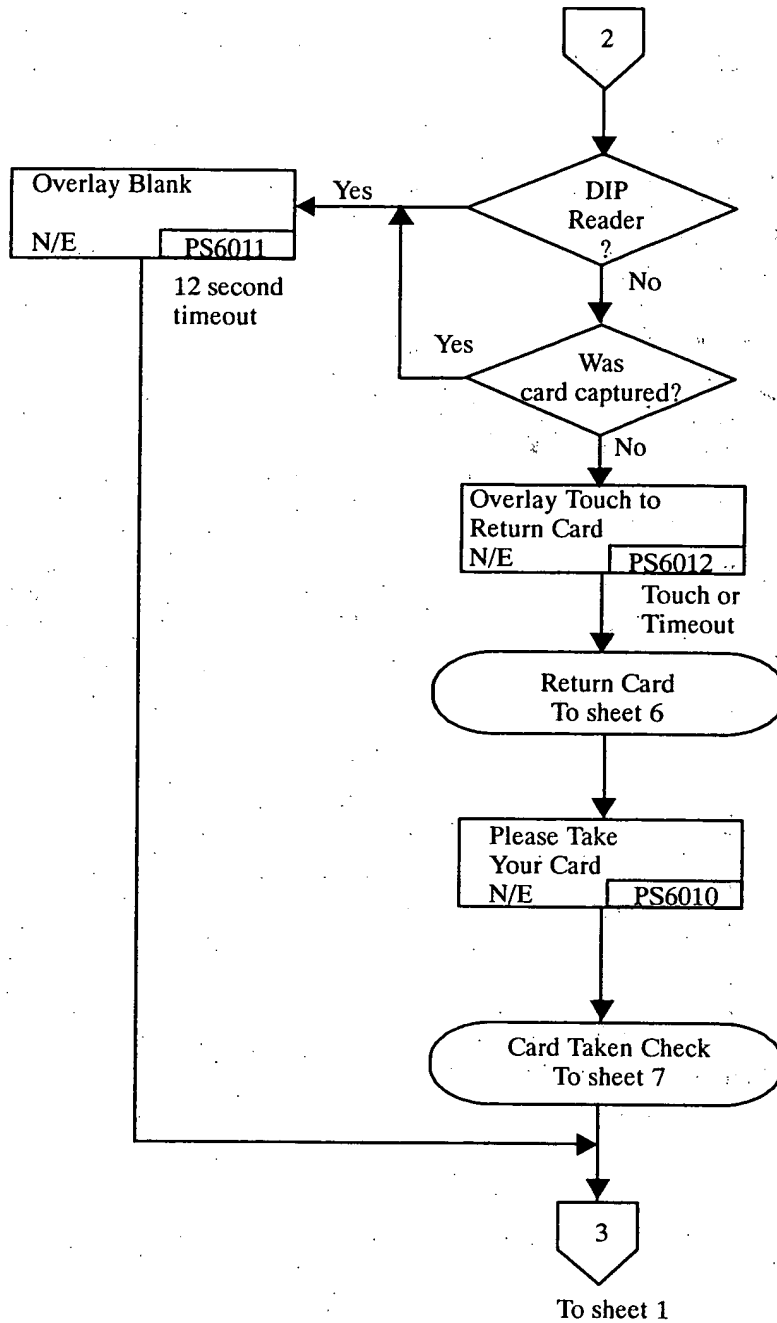


Figure 8-2. ICC Card Processing Exit (Sheet 3 of 10)

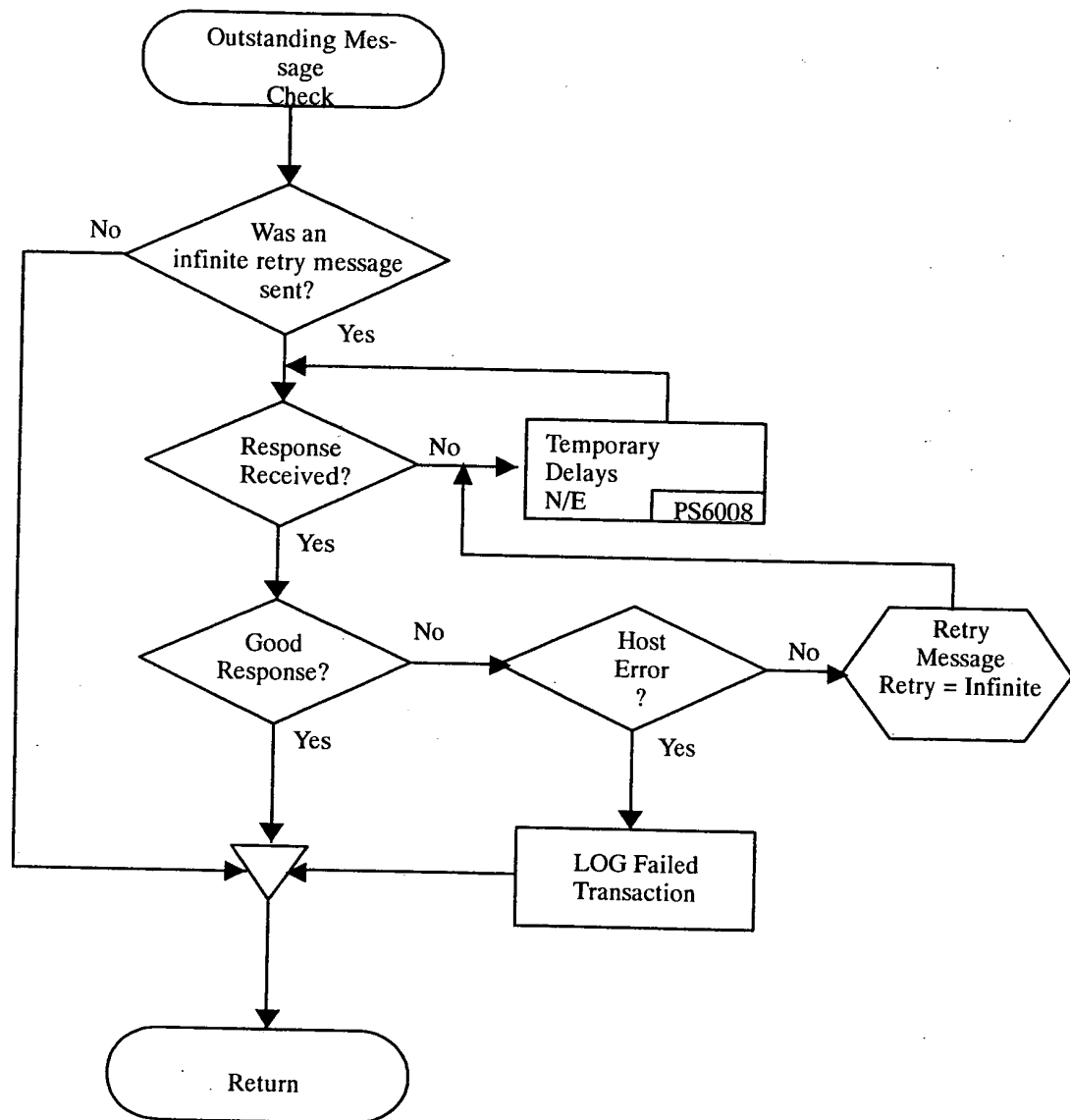


Figure 8-3. ICC Card Processing Outstanding Message Check (Sheet 4 of 10)

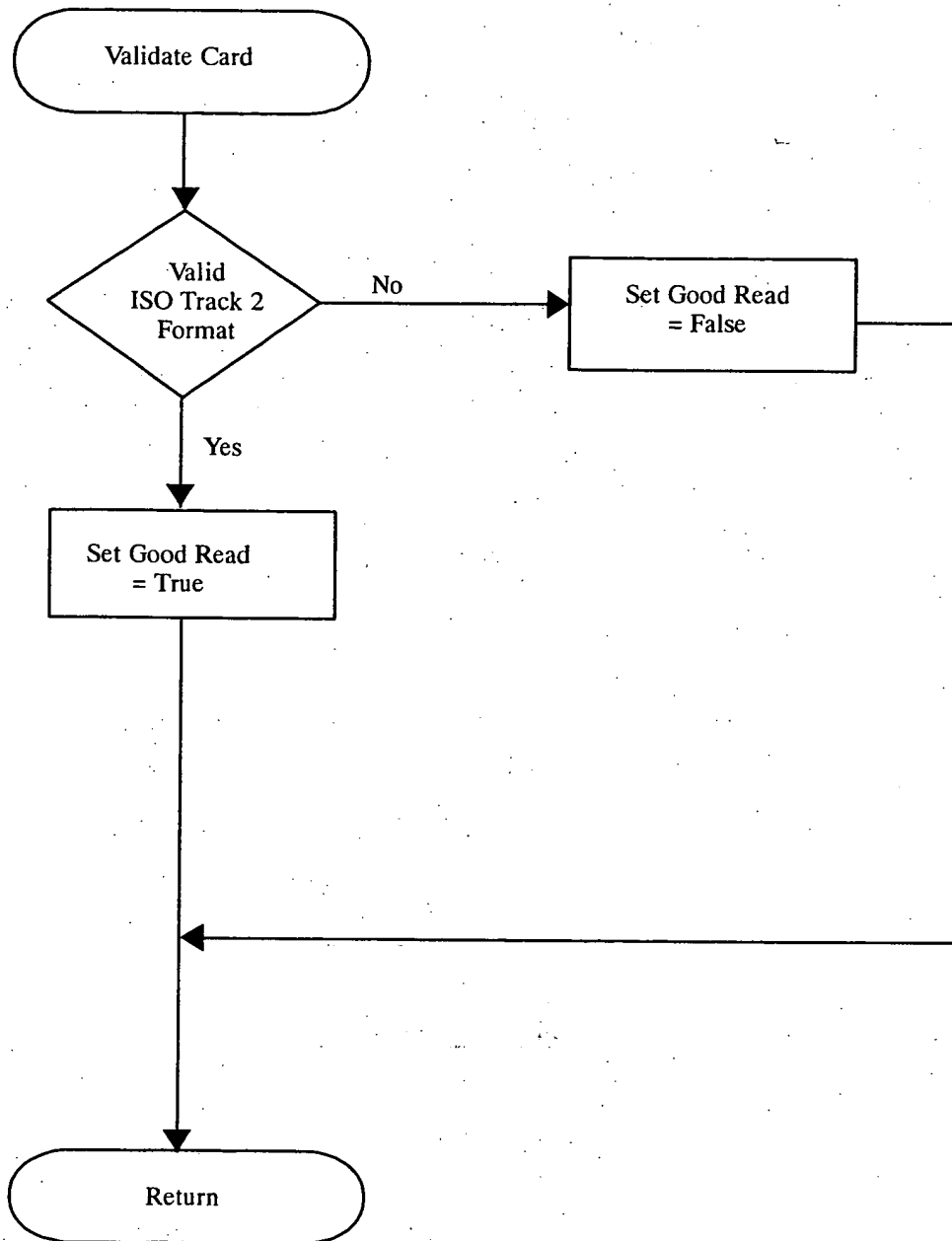


Figure 8-4. ICC Card Processing Validate Card (Sheet 5 of 10)

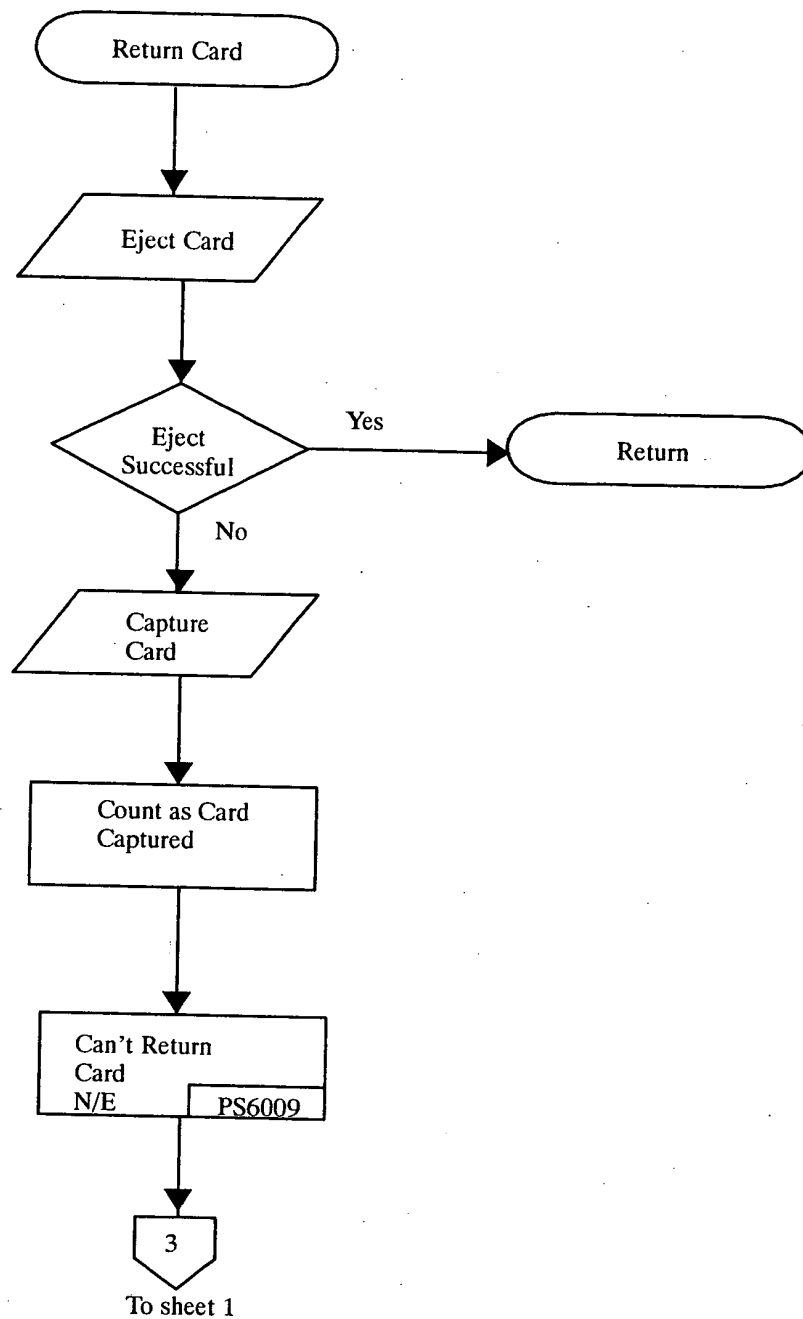


Figure 8-5. ICC Card Processing Return Card (Sheet 6 of 10)

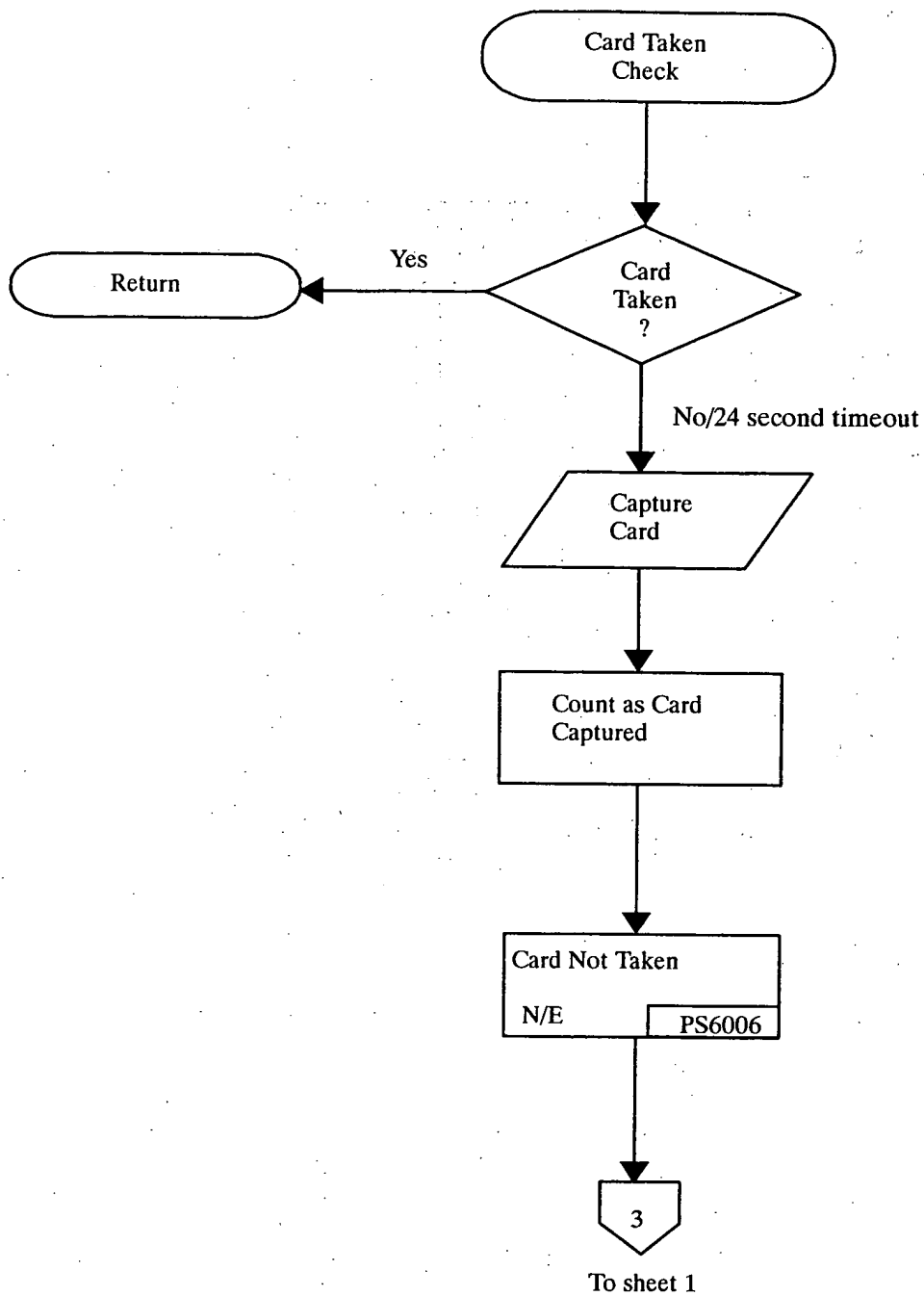


Figure 8-6. ICC Card Processing Card Taken Check (Sheet 7 of 10)

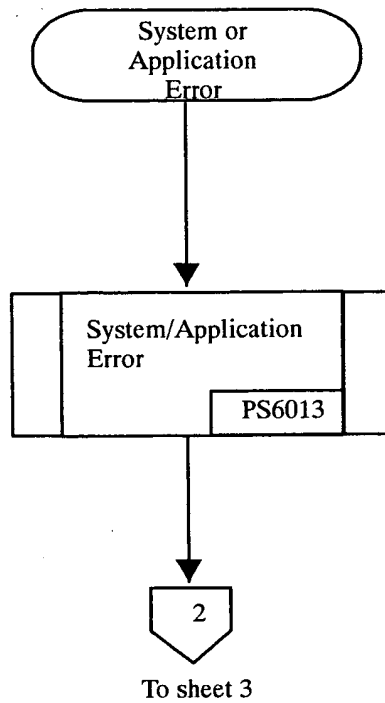


Figure 8-7. ICC Card Processing System or Application Error (Sheet 8 of 10)

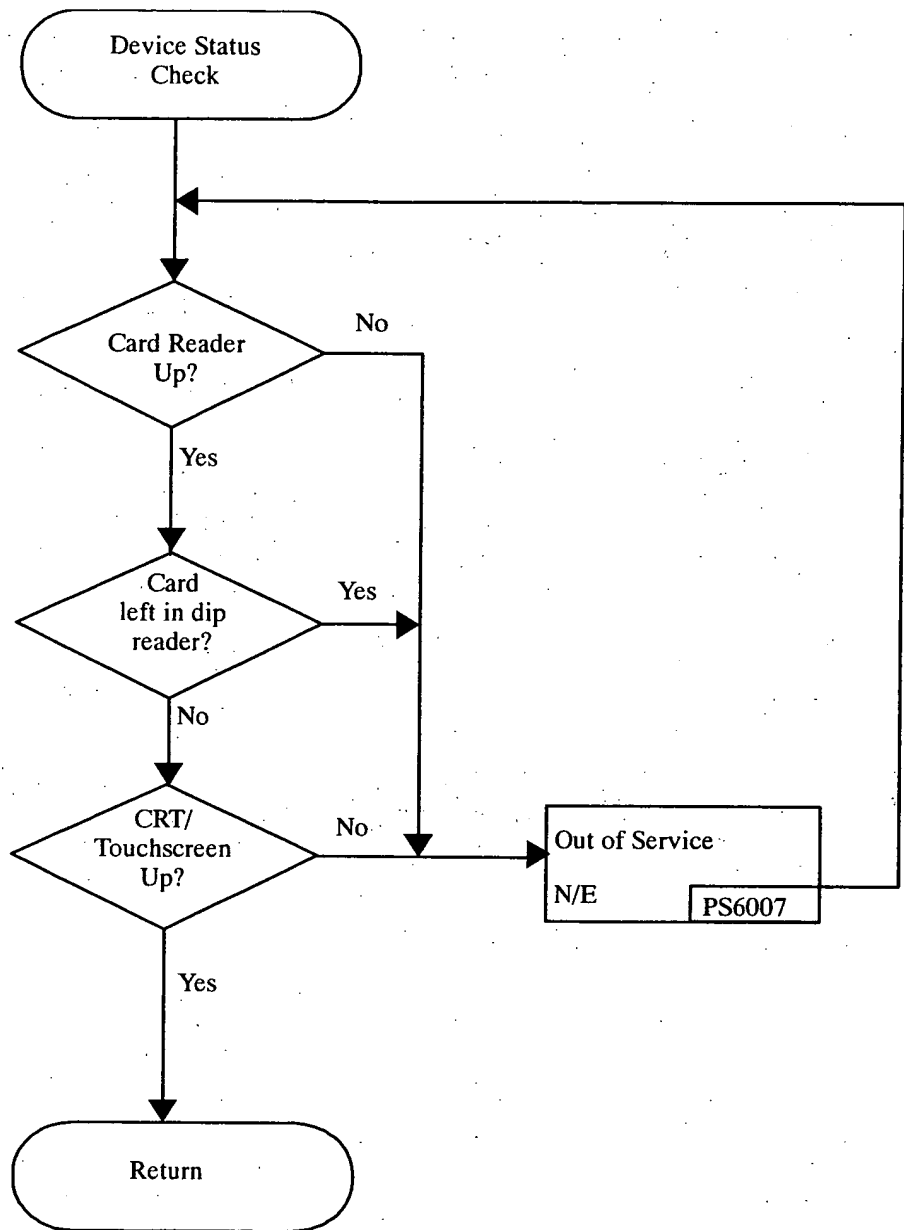


Figure 8-8. ICC Card Processing Device Status Check (Sheet 9 of 10)

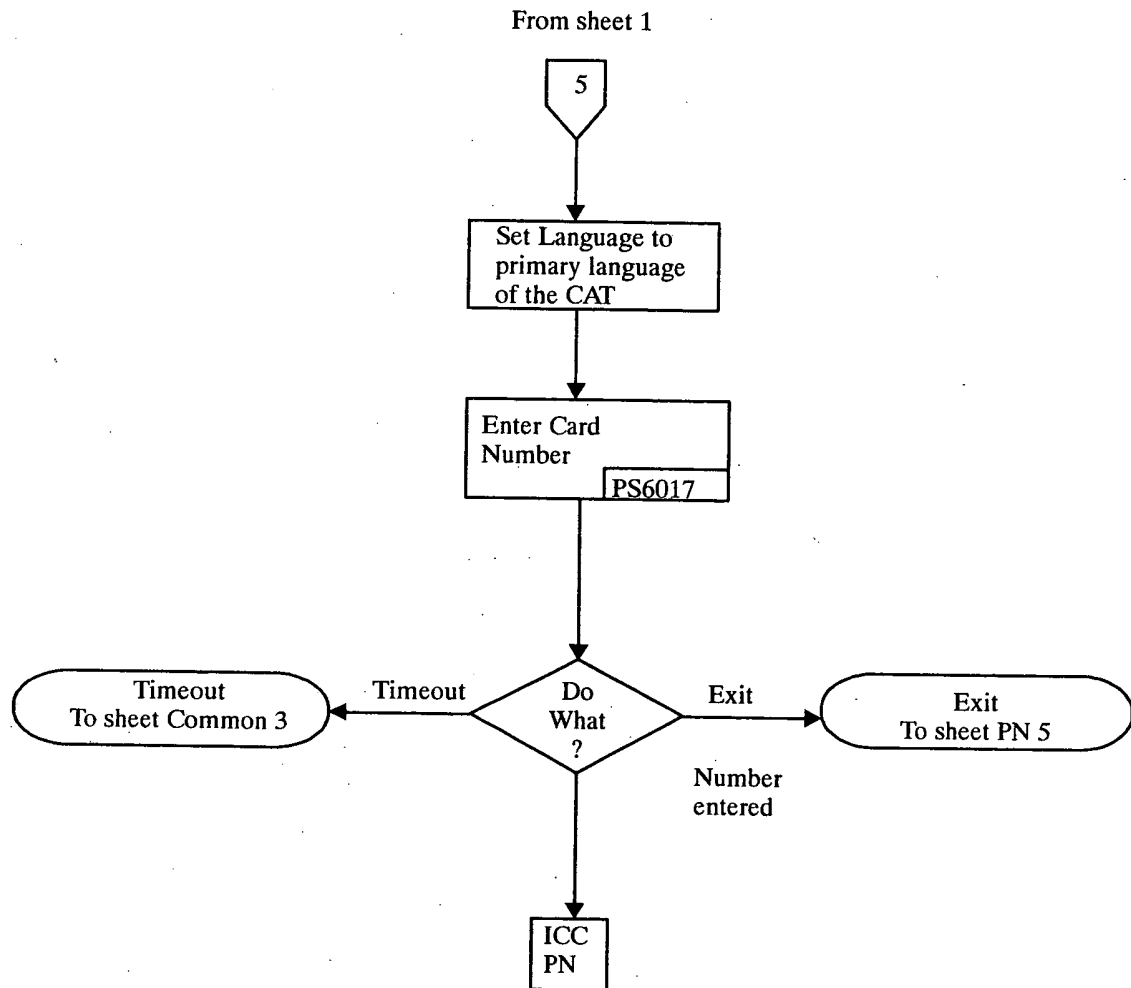


Figure 8-9. PC CAT Cardless Access (Sheet 10 of 10)

STR 40607-S

8.4 Screens

This section shows the screens and standard data elements for the ICC Card Processing application.

Screen PS6000. Two Language Hello

```
111111111122222222223333333334
1234567890123456789012345678901234567890

+-----+
1 |                                             | 1
2 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 2 greeting
3 |                                             | 3 greeting1 not shown
4 |                                             | 4
5 |                                             | 5
6 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 6 ins_card1
7 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 7 ins_card1a
8 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 8 ins_card1b
9 |                                             | 9
10 |                                            | 10
11 |                                            | 11
12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 hello2/hello2C
13 |                                            | 13 hello2a not shown
14 |                                            | 14
15 |                                            | 15
16 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 16 ins_card2/ins_card2C
17 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 17 ins_card2a/ins_card2aC
18 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 18 ins_card2b/ins_card2bC
19 |                                            | 19
20 |          © Citicorp 1990, 1995          | 20
+-----+
```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS6000 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card1a	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card1b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>

Standard Data Elements: Screen PS6000 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
hello2	O	X(38)	C	<p>If the secondary language of this CAT is English, display one of the following based on time of day:</p> <p>Morning - "Hello - May I help you?"</p> <p>Afternoon - "Hello - May I help you?"</p> <p>Evening - "Hello - May I help you?"</p> <p>Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.</p>
hello2a	O	X(38)	C	<p>Display one of the following based on time of day:</p> <p>Morning - blank</p> <p>Afternoon - blank</p> <p>Evening - blank</p>
hello2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6000 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card2a	O	X(38)	C	<p>If the secondary language of this CAT is English, display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card2aC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>
ins_card2bC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-1.

Screen PS6000A. One Language Hello

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                           | 1
2 |                                           | 2
3 |                                           | 3
4 |                                           | 4
5 |                                           | 5
6 |                                           | 6
7 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 7 greeting
8 |                                           | 8 greeting1 not shown
9 |                                           | 9
10 |                                          | 10
11 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 11 ins_card1
12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 ins_card1a
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 ins_card1b
14 |                                           | 14
15 |                                           | 15
16 |                                           | 16
17 |                                           | 17
18 |                                           | 18
19 |                                           | 19
20 | © Citicorp 1990, 1995                | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS6000A (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card1a	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card1b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>

Screen Transition: See Figure 8-1.

Screen PS6001. Two Language Hello - Alt

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 1 greeting
2 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 2 greeting1 not shown
3 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 3 ins_card1
4 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 4 ins_card1a
5 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 5 ins_card1b
6 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 6
7 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 7
8 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 8
9 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 9
10|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 10
11|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 11 hello2/hello2C
12|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 12 hello2a not shown
13|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 13 ins_card2/ins_card2C
14|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 14 ins_card2a/ins_card2aC
15|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 15 ins_card2b/ins_card2bC
16|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 16
17|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 17
18|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 18
19|© Citicorp 1990, 1995| 19
20|XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS6001 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card1a	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card1b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>

Standard Data Elements: Screen PS6001 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
hello2	O	X(38)	C	<p>If the secondary language of this CAT is English, display one of the following based on time of day:</p> <p>Morning - "Hello - May I help you?"</p> <p>Afternoon - "Hello - May I help you?"</p> <p>Evening - "Hello - May I help you?"</p> <p>Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.</p>
hello2a	O	X(38)	C	<p>Display one of the following based on time of day:</p> <p>Morning - blank</p> <p>Afternoon - blank</p> <p>Evening - blank</p>
hello2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6001 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card2a	O	X(38)	C	<p>If the secondary language of this CAT is English, display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card2aC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>
ins_card2bC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-1.

Screen PS6001A. One Language Hello - Alt

111111111122222222223333333334	
1234567890123456789012345678901234567890	
1	1
2	2
3	3
4	4
5	5 greeting
6	6 greeting1 not shown
7	7
8	8 ins_card1
9	9 ins_card1a
10	10 ins_card1b
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning- "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS60001A (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card1a	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport- "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card1b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>

Screen Transition: See Figure 8-1.

Screen PS6002. Hello with Button - Two Languages

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
1	1
2	2 greeting not shown
3	3 greeting1 not shown
4	4
5	5
6	6
7	7
8	8
9	9
10	10 hello2/hello2C
11	11 hello2a not shown
12	12
13	13 ins_card2/ins_card2C
14	14 ins_card2a/ins_card2aC
15	15 ins_card2b/ins_card2bC
16	16
17	17
18	18 no_card/no_cardC
19	19
20	20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 AM to noon, "afternoon" is from noon to 6:00 PM, and "evening" is from 6:00 PM to 6:00 AM.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS6002 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
hello2	O	X(38)	C	If the secondary language of this CAT is English, display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?"
hello2a	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank
hello2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2	O	X(38)	C	If the secondary language of this CAT is English, display "Please put your card in the slot".
ins_card2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2a	O	X(38)	C	If the secondary language of this CAT is English, display "and take it out - so I can help you."
ins_card2aC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2b	O	X(39)	C	If the secondary language of this CAT is English, display blank.
ins_card2bC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
no_card	O	X(45)	L	If the secondary language of this CAT is English, display "Touch here if you don't have your card."
no_cardC	O	C(16)	L	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-1.

Screen PS6002A. Hello With Button - One Language

```
111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |      Hello - May I help you?      | 7
8 |                                     | 8
9 |                                     | 9
10 |      Please put your card in the slot | 10
11 |      and take it out - so I can help you. | 11
12 |                                     | 12
13 |                                     | 13
14 |                                     | 14
15 |                                     | 15
16 |                                     | 16
17 | +---+                               | 17
18 | +---+ Touch here if you don't have your card. | 18
19 |                                     | 19
20 |      © Citicorp 1990, 1995         | 20
+-----+
```

Screen Transition: See Figure 8-1.

Screen PS6004. Can't Read Card - Two Languages

```

111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry.  I can't read your card | 3
4 | right now.                               | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 cant_read1/cant_read1C
14| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 cant_read1a/cant_read1aC
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
cant_read1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't read your card".
cant_read1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
cant_read1a	O	X(38)	L	If the secondary language of this CAT is English, display "right now."
cant_read1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1a.

Screen PS6004A. Can't Read Card - One Language

```
111111111122222222223333333334
1234567890123456789012345678901234567890

+-----+
1 |      | 1
2 |      | 2
3 |      | 3
4 |      | 4
5 |      | 5
6 |      | 6
7 |      | 7
8 |      | 8
9 | I'm sorry. I can't read your card | 9
10| right now. | 10
11|      | 11
12|      | 12
13|      | 13
14|      | 14
15|      | 15
16|      | 16
17|      | 17
18|      | 18
19|      | 19
20|      | 20
+-----+
```

Screen Transition: See Figure 8-1a.

Screen PS6005. Card Not Supported - Two Languages

```

111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. I can't handle this card | 3
4 | yet.                               | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 bad_card1/bad_card1C
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 bad_card1a/bad_card1aC
15 |                                    | 15
16 |                                    | 16
17 |                                    | 17
18 |                                    | 18
19 |                                    | 19
20 |                                    | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
bad_card1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't handle this card".
bad_card1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
bad_card1a	O	X(38)	L	If the secondary language of this CAT is English, display "yet."
bad_card1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1a.

Screen PS6005A. Card Not Supported - One Language

```
1111111111222222222233333333334
1234567890123456789012345678901234567890

+-----+
1 |      | 1
2 |      | 2
3 |      | 3
4 |      | 4
5 |      | 5
6 |      | 6
7 |      | 7
8 |      | 8
9 | I'm sorry. I can't handle this card | 9
10| yet. | 10
11|      | 11
12|      | 12
13|      | 13
14|      | 14
15|      | 15
16|      | 16
17|      | 17
18|      | 18
19|      | 19
20|      | 20
+-----+
```

Screen Transition: See Figure 2-1a.

Screen PS6006. Card Not Taken - Two Languages

```

11111111112222222222333333333334
1234567890123456789012345678901234567890
+-----+
1 | 1 | 1 |
2 | I'm sorry. You haven't taken your | 2 |
3 | card. I'm holding your card for | 3 |
4 | your protection. | 4 |
5 | | 5 |
6 | | 6 |
7 | | 7 |
8 | | 8 |
9 | | 9 |
10 | | 10 |
11 | | 11 |
12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 not_taken1/not_taken1C
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 not_taken1a/not_taken1aC
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 not_taken1b/not_taken1bC
15 | | 15 |
16 | | 16 |
17 | | 17 |
18 | | 18 |
19 | | 19 |
20 | | 20 |
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
not_taken1	O	X(38)	L	If the secondary language of this CAT is English, then display "I'm sorry. You haven't taken your".
not_taken1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
not_taken1a	O	X(38)	L	If the secondary language of this CAT is English, display "card. I'm holding your card for".
not_taken1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
not_taken1b	O	X(38)	L	If the secondary language of this CAT is English, display "your protection."
not_taken1bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-6.

Screen PS6006A. Card Not Taken - One Language

```
1111111111222222222233333333334
1234567890123456789012345678901234567890

+-----+
1 |      | 1
2 |      | 2
3 |      | 3
4 |      | 4
5 |      | 5
6 |      | 6
7 |      | 7
8 |      | 8
9 | I'm sorry. You haven't taken your | 9
10| card. I'm holding your card for   | 10
11| your protection.                  | 11
12|                                   | 12
13|                                   | 13
14|                                   | 14
15|                                   | 15
16|                                   | 16
17|                                   | 17
18|                                   | 18
19|                                   | 19
20|                                   | 20
+-----+
```

Screen Transition: See Figure 8-6.

Screen PS6007. Out of Service - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 | I'm sorry. I can't help you right now. | 4
5 | Please try again later.               | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 oos1/oos1C
14| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 oos1a/oos1aC
15| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 15 oos1b/oos1bC
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
oos1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't help you right now."
oos1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
oos1a	O	X(38)	L	If the secondary language of this CAT is English, display "Please try again later."
oos1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
oos1b	O	X(38)	L	If the secondary language of this CAT is English, leave blank.
oos1bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-3.

Screen PS6007A. Out of Service - One Language

```
1111111111222222222233333333334  
1234567890123456789012345678901234567890  
+-----+  
1 |  
2 |  
3 |  
4 |  
5 |  
6 |  
7 |  
8 |  
9 | I'm sorry. I can't help you right now.  
10 |  
11 | Please try again later.  
12 |  
13 |  
14 |  
15 |  
16 |  
17 |  
18 |  
19 |  
20 |  
+-----+
```

Screen Transition: See Figure 8-3.

Screen PS6008. Temporary Delays - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. We are having some     | 3
4 | temporary delays. Please wait a few | 4
5 | moments and try again.             | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 delays1/delays1C
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 delays1a/delays1aC
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 delays1b/delays1bC
15 |                                    | 15
16 |                                    | 16
17 |                                    | 17
18 |                                    | 18
19 |                                    | 19
20 |                                    | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
delays1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. We are having some".
delays1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
delays1a	O	X(38)	L	If the secondary language of this CAT is English, display "temporary delays. Please wait a few".
delays1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
delays1b	O	X(38)	L	If the secondary language of this CAT is English, display "moments and try again."
delays1bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-3.

Screen PS6008A. Temporary Delays - Two Languages

```
1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |      | 1
2 |      | 2
3 |      | 3
4 |      | 4
5 |      | 5
6 |      | 6
7 |      | 7
8 | I'm sorry. We are having some | 8
9 | temporary delays.              | 9
10|                                | 10
11| Please wait a few moments and  | 11
12| try again.                     | 12
13|                                | 13
14|                                | 14
15|                                | 15
16|                                | 16
17|                                | 17
18|                                | 18
19|                                | 19
20|                                | 20
+-----+
```

Screen Transition: See Figure 8-3.

Screen PS6009. Can't Return Card - Two Languages

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. I can't return your card | 3
4 | right now.                         | 4
5 |                                     | 5
6 | Please use the phone next to you   | 6
7 | to call Customer Service.         | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 cant_return1/cant_return1C
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 cant_return1a/cant_return1aC
14|                                     | 14
15| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 15 call_cs1/call_cs1C
16| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 16 call_cs1a/call_cs1aC
17| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 17 call_cs1b/call_cs1bC
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
cant_return1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't return your card".
cant_return1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
cant_return1a	O	X(38)	L	If the secondary language of this CAT is English, display "right now."
cant_return1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
call_cs1	O	X(38)	L	If the secondary language of this CAT is English, display "Please use the phone next to you".
call_cs1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6009 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
call_cs1a	O	X(38)	L	If the secondary language of this CAT is English, display "to call Customer Service."
call_cs1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
call_cs1b	O	X(38)	L	If the secondary language of this CAT is English, leave blank.
call_cs1bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-5.

Screen PS6009A. Can't Return Card - One Language

111111111122222222223333333334
1234567890123456789012345678901234567890

1		1
2		2
3		3
4		4
5		5
6	I'm sorry. I can't return your card	6
7	right now.	7
8		8
9	Please use the phone next to you	9
10	to call Customer Service.	10
11		11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 8-5.

Screen PS6010. Please Take Your Card - Two Languages

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 | Please take your card.           | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 take_card1/take_card1C
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
take_card1	O	X(38)	C	If the secondary language of this CAT is English, display "Please take your card."
take_card1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-2.

Screen PS6010A. Please Take Your Card - One Language

111111111122222222223333333334		
1234567890123456789012345678901234567890		
1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9		9
10	Please take your card.	10
11		11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 8-2.

Overlay PS6011. Blank

111111111122222222223333333334	
1234567890123456789012345678901234567890	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

Screen Transition: See Figure 8-2.

Overlay PS6012. Touch to Return Card - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 | +-----+                         | 8
9 | Please touch here to return your card | 9
10| +-----+                         | 10
11|                                     | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18| +-----+                         | 18
19| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | 19 touch1/touch1C
20| +-----+                         | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
touch1	O	X(51)	C	If the secondary language of this CAT is English, display "Please touch here to return your card".
touch1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-2.

Overlay PS6012A. Touch to Return Card - Two Languages

111111111122222222223333333334
1234567890123456789012345678901234567890

1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9		9
10		0
11		11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19	Please touch here to return your card	19
20		20

Screen Transition: See Figure 8-2.

Screen PS6013. Application Error - Two Languages

```

11111111112222222222333333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. I can't do that right now. | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 error1/error1C
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 error1a/error1aC
15 |                                    | 15
16 |                                    | 16
17 |                                    | 17
18 |                                    | 18
19 |                                    | 19
20 |                                    | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
error1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't do that right now."
error1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
error1a	O	X(38)	L	If the secondary language of this CAT is English, leave blank.
error1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-7.

Screen PS6013A. Application Error - One Language

```
1111111111222222222233333333334  
1234567890123456789012345678901234567890  
+-----+  
1 | 1 | 1  
2 | 2 | 2  
3 | 3 | 3  
4 | 4 | 4  
5 | 5 | 5  
6 | 6 | 6  
7 | 7 | 7  
8 | 8 | 8  
9 | 9 | 9  
10 | I'm sorry. I can't do that right now. | 10  
11 | | 11  
12 | | 12  
13 | | 13  
14 | | 14  
15 | | 15  
16 | | 16  
17 | | 17  
18 | | 18  
19 | | 19  
20 | | 20  
+-----+
```

Screen Transition: See Figure 8-7.

Screen PS6014. Please Take Card Out - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | Please take your card out -      | 3
4 | so I can help you.               | 4
5 |                                   | 5
6 |                                   | 6
7 |                                   | 7
8 |                                   | 8
9 |                                   | 9
10 |                                  | 10
11 |                                  | 11
12 |                                  | 12
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 take_out1/take_out1C
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 take_out1a/take_out1aC
15 |                                  | 15
16 |                                  | 16
17 |                                  | 17
18 |                                  | 18
19 |                                  | 19
20 |                                  | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
take_out1	O	X(38)	L	If the secondary language of this CAT is English, display "Please take your card out - "
take_out1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
take_out1a	O	X(38)	L	If the secondary language of this CAT is English, display "so I can help you.".
take_out1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-1.

Comments: This screen should "boop" once per second until either the card is removed or it times out after 17.5 seconds.

Screen PS6014A. Please Take Card Out - One Language

```
1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | Please take your card out -      | 9
10| so I can help you.                | 10
11|                                   | 11
12|                                   | 12
13|                                   | 13
14|                                   | 14
15|                                   | 15
16|                                   | 16
17|                                   | 17
18|                                   | 18
19|                                   | 19
20|                                   | 20
+-----+
```

Screen Transition: See Figure 8-1.

Comments: This screen should “boop” once per second until either the card is removed or it times out after 17.5 seconds.

Screen-PS6015. Second Take Out Card - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. I can't help you while | 3
4 | your card is in the slot.         | 4
5 |                                     | 5
6 | Please take your card out so we  | 6
7 | can start again.                  | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 cant_help1/cant_help1C
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 cant_help1a/cant_help1aC
14|                                     | 14
15| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 15 start_again1/start_again1C
16| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 16 start_again1a/start_again1aC
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
cant_help1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't help you while".
cant_card1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
cant_help1a	O	X(38)	L	If the secondary language of this CAT is English, display "your card is in the slot".
cant_help1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
start_again1	O	X(38)	L	If the secondary language of this CAT is English, display "Please take your card out so we".
start_again1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6015 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
start_again1a	O	X(38)	L	If the secondary language of this CAT is English, display "can start again."
start_again1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-1.

Comments: No "booping"; timeout is 120 seconds.

Screen PS6015A. Second Take Out Card - One Language

```
11111111112222222223333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 | I'm sorry. I can't help you while | 8
9 | your card is in the slot.         | 9
10|                                     | 10
11| Please take your card out so we  | 11
12| can start again.                  | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
```

Screen Transition: See Figure 8-1.

Comments: No "booping"; timeout is 120 seconds.

Standard Data Elements

8-54

Standard Data Elements: Screen PS6016 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1b	O	X(38)	L	Display one of the following based on the type of CAT hardware in use: CAT/dip - "so I can help you." CAT/transport - blank DUCAT/transport - blank DUCAT/dip - "so I can help you." PC CAT - blank
couldnt_read1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I couldn't read your card".
couldnt_read1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
couldnt_read1a	O	X(38)	L	If the secondary language of this CAT is English, display "that time".
couldnt_read1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
ins_card2	O	X(38)	L	If the secondary language of this CAT is English, display "Please put your card in the slot".
ins_card2C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
ins_card2a	O	X(38)	L	If the secondary language of this CAT is English, display one of the following based on the type of CAT hardware in use: CAT/dip - "to your right and take it out -" CAT/transport - "above." DUCAT/transport - "to your left." DUCAT/dip - "to your left and take it out -" PC CAT - "and take it out - so I can help you."
ins_card2aC	O	C(17)	L	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6016 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card2b	O	X(38)	L	Display one of the following based on the type of CAT hardware in use: CAT/dip - "so I can help you." CAT/transport - blank DUCAT/transport - blank DUCAT/dip - "so I can help you." PC CAT - blank
ins_card2bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1a.

Comments: Screen should "boop" once when first presented. Timeout is 7 seconds.

Screen PS6016A. Bad Read, Please Re-Dip - One Language

```

1111111111222222222233333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 | I'm sorry. I couldn't read your card | 8
9 | that time.                          | 9
10|                                     | 10
11| Please put your card in the slot    | 11
12| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 ins_card1a
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 ins_card1b
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1a	O	X(38)	L	Display one of the following based on the type of CAT hardware in use: CAT/dip - "to your right and take it out -" CAT/transport - "above." DUCAT/transport - "to your left." DUCAT/dip - "to your left and take it out -" PC CAT - "and take it out - so I can help you."

Standard Data Elements: Screen PS6016A (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1b	O	X(38)	L	Display one of the following based on the type of CAT hardware in use: CAT/dip - "so I can help you." CAT/transport - blank DUCAT/transport - blank DUCAT/dip - "so I can help you." PC CAT - blank

Screen Transition: See Figure 2-1a.

Comments: Screen should "boop" once when first presented. Timeout is 7 seconds.

Screen PS6017. Enter Card Number

111111111122222222223333333334
1234567890123456789012345678901234567890

1					1
2	Please tell me your card number.				2
3	Then touch ENTER.				3
4	(Touch CLEAR to erase.)				4
5	+-----+				5
6	-----				6 card_id
7	+-----+				7
8	1	2	3		8
9					9
10					10
11	+-----+			ENTER	11
12	4	5	6		12
13					13
14					14
15	+-----+				15
16				CLEAR	16
17	7	8	9		17
18	+-----+				18
19		0			19
20				EXIT	20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
-----------	-----	--------	---------	----------

card_id	I	9(19)	L	Must be ≥ 6 and ≤ 19 digits. As the number is entered, display the digits from left to right.
---------	---	-------	---	---

Screen Transition: See Figure 8-9.

PRC PS6025. Off-Us Local Processing

Screen Transition: See Figure 2-1a.

Comments: At this point to which the ICC Generic Product Select application returns if it cannot process a card.

The main purpose of this entry point is to allow local Off-Us processing of cards that are either not recognized by ICC or recognized as local Off-Us by ICC.

For ICC Standalone applications, there is no local Off-Us support, so it is expected that the ICC Generic Product Select application would return a card class of "unsupported". If so, the unsupported card error screen is displayed and the session is ended, returning the card if necessary.

If any other card class is returned, it is treated as a bad card read.

Appendix A

ICC Card Prefix Table

Most of the values in the Card Prefix File are assigned by TTI.

This chapter details only those items which are assigned by the Consumer Product Development Group.

The following codes in Table A-1 are valid entries in the four Base_Lang_Cde/Lang_Cde fields.

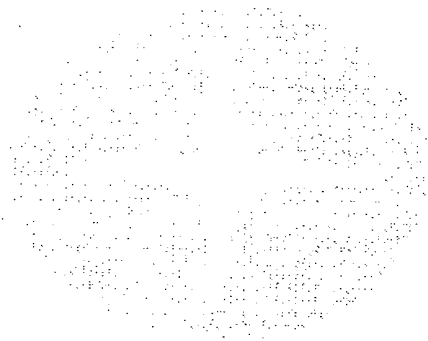
Table A-1. Valid Base_Lang_Cde and Lang_Cde Field Entries

Base_Lang_Cde	Lang_Cde	Description
01	01	U.S. English
02	02	Master Spanish
03	03	Master Chinese (Standard Characters)
04	04	German
05	05	Italian
06	06	French
07	07	Greek
08	08	Filipino
09	09	Malay
10	10	Japanese
11	11	Turkish
12	12	Arabic
13	13	Hangul (Korean)
14	14	Russian
03	15	Chinese (Simplified Characters)

Appendix B

Currency Code Information

The ICC applications use the currency codes assigned by the International Organization for Standardization (ISO). This standard is defined in ISO 4217:1987 (E/F). All ESP messages use the **alphabetic** representation of the currency code. How currencies should be formatted on screen displays and printed records is defined in Appendix C.



Appendix C

General Formats

This chapter details the currency and the date formatting used by the Global ICC application.

C.1 Currency Formatting

The Currency Format table is only required by versions of the ICC application prior to Global ICC (Phase 5). However, this table will remain in the APS until Global ICC has been implemented in all locations, completely replacing all previous versions of ICC.

Table C-1 details how each of the ISO currencies should be formatted, and indicates the number of decimal places supported for each currency, and the character to use as the decimal separator.

NOTE

For a format that includes asterisks (*), substitute the characters indicated as "Desc" for the leftmost asterisk.

Table C-1. Currency Formats

ISO Code	Desc	Dec. Places	Thous. Sep.	Dec. Point Indic.	"Z" Format	"\$" Format	"W" Format
ADP	"ADP "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***.***9-	**.***.***9
AED	"Dh. "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
AFA	"Af "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
ALL	"ALL "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9.99-	**.***.***9
ANG	"ANG "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
AOK	"Kz "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,***9-	**,***,***9
AON	"AON "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
ARA	"Ar\$ "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9.99-	**.***.***9
ARP	"Ar\$ "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9.99-	**.***.***9
ARS	"Ar\$ "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9.99-	**.***.***9
ATS	"ATS "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZ9.99-	***.***.***.***9.99-	**.***.***9
AUD	"A\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
AWG	"AWG "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
BBD	"Bds\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
BDT	"Tk "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
BEC	"BEC "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***.***9-	**.***.***9
BEF	"BEF "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***.***9-	**.***.***9
BEL	"BEL "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***.***9-	**.***.***9
BGL	"BGL "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9.99-	**.***.***9
BHD	"BD "	3	comma	period	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***9.999-	**,***,***9
BIF	"FBu "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,***9-	**,***,***9
BMD	"\$B "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
BND	"B\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
BOB	"\$b "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
BRC	"R\$ "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9.99-	**.***.***9
BRL	"R\$ "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9.99-	**.***.***9
BSD	"B\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
BTN	"N "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
BUK	"BuK "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
BWP	"BwP "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
BZD	"\$B "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,***9.99-	**,***,***9
CAD	"C\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZ9.99-	***,***,***,***9.99-	**,***,***9
CEK	"CEK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9.99-	**.***.***9
CHF	"CHF "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZ9.99-	***.***.***.***9.99-	**.***.***9

STR 45095-S

STR 48543-S

General Formats

Table C-1. Currency Formats

ISO Code	Desc	Dec. Places	Thous. Sep.	Dec. Point Indic.	"Z" Format	"\$" Format	"W" Format
CLF	"Ch\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CLP	"Ch\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CNY	"RMB "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	YYY,YYY,YYY,YY9.99-	YY,YYY,YY9
COP	"Col\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CRC	"¢ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	cccc,ccc,ccc,cc9.99-	cc,ccc,cc9
CUP	"Cu\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CVE	"Esc "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CYP	"£C "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CZK	"CZK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
DEM	"DM "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
DJF	"DF "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,**9-	**,**,**9
DKK	"DKK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
DOP	"RD\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
DZD	"DA "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
ECS	"S/ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
EEK	"EEK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
EGP	"£E "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
ESB	"ESB "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***,***,***,***,**9-	**,**,**9
ESP	"PTS "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***,***,***,***,**9-	**,**,**9
ETB	"EB "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
FIM	"FIM "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
FJD	"\$F "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
FKP	"FK£ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
FRF	"FRF "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GBP	"£ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZ9.99-	****,***,***,**9.99-	**,**,**9
GEK	"GEK "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***,***,***,***,**9-	**,**,**9
GHC	"C "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GIP	"GIP "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GMD	"DD "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GNF	"GnF "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,**9-	**,**,**9
GRD	"GRD "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***,***,***,***,**9-	**,**,**9
GTQ	"Q "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GWP	"GWP "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GYD	"G\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9

STR 45095-S STR 48207-S
STR 48543-S

Table C-1. Currency Formats

ISO Code	Desc	Dec. Places	Thous. Sep.	Dec. Point Indic.	"Z" Format	"\$" Format	"W" Format
HKD	"HK\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
HNL	"L "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
HRK	"HRK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ,Z9-	****,***,***,**9.99-	****,***9
HTG	"G "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
HUF	"HUF "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ,Z9-	****,***,***,**9.99-	****,***9
IDR	"Rp. "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ,Z9-	****,***,***,**9.99-	****,***9
IEP	"IEP "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ,Z9-	****,***,***,**9.99-	****,***9
ILS	"If "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
INR	"Rs "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
IQD	"ID "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
IRR	"RIs "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
ISK	"ISK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ,Z9-	****,***,***,**9.99-	****,***9
ITL	"TTL "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	****,***,***,**9.99-	****,***9
JMD	"J\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
JOD	"JD "	3	comma	period	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,**9.999-	**,**,***9
JPY	"¥"	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	YYY,YYY,YYY,YYY,YY9-	YY,YYY,YY9
KES	"KSh "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
KGS	"KGS "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ,Z9-	****,***,***,**9.99-	****,***9
KHR	"KR "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
KMF	"CAF "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,**9.99-	**,**,***9
KPW	"KPW "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
KRW	"W."	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,**9.99-	**,**,***9
KWD	"KD "	3	comma	period	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,**9.999-	**,**,***9
KYD	"KYD "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
KZT	"KZT "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ,Z9-	****,***,***,**9.99-	****,***9
LAK	"LaK "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
LBP	"LL "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
LKR	"CRs "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	****,***9
LRD	"Li\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
LSL	"LSL"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ,Z9-	****,***,***,**9.99-	**,**,***9
LTL	"LTL "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ,Z9-	****,***,***,**9.99-	****,***9
LTT	"LTT "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ,Z9-	****,***,***,**9.99-	****,***9
LUC	"LUC "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ,ZZ9-	****,***,***,**9.99-	****,***9
LUF	"LUF "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ,ZZ9-	****,***,***,**9.99-	****,***9

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Table C-1. Currency Formats

ISO Code	Desc	Dec. Places	Thous. Sep.	Dec. Point Indic.	"Z" Format	"S" Format	"W" Format
LUL	"LUL "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***.***9-	***.***.***9
LVL	"LVL "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
LVR	"LVR "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
LYD	"LD "	3	comma	period	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***.***.***.***9,999-	***.***.***9
MAD	"DH "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
MDL	"MDL "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
MGF	"FMG "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***.***.***.***.***9-	***.***.***9
MKD	"MKD "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
MMK	"MMK "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
MNT	"Tug "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
MOP	"P "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
MRO	"MrO "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
MTL	"MTL "	3	period	comma	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***9,999-	***.***.***9
MUR	"MaR "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
MVR	"MRe "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
MWK	"MwK "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
MXN	"Mx\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
MXP	"Mex\$ "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***.***.***.***.***9-	***.***.***9
MYR	"RM "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
MZM	"MZM "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
NGN	"N- "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
NIC	"C\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
NIO	"NIO "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
NLG	"NLG "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
NOK	"NOK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
NPR	"NRs "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
NZD	"NZ\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9.99-	***.***.***.***9,99-	***.***.***9
OMR	"RO "	3	comma	period	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***.***.***.***9,999-	***.***.***9
PAB	"PaB "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
PEI	"PEI "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
PEN	"PEN "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
PGK	"K "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
PHP	"P "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9
PKR	"PKR "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***.***.***.***9,99-	***.***.***9

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Table C-1. Currency Formats

ISO Code	Desc	Dec. Places	Thous. Sep.	Dec. Point Indic.	"Z" Format	"\$" Format	"W" Format
PLZ	"PLZ "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
PTE	"PTE "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***9-	**.*.*.*9
PYG	"G "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***9-	**,***,***9
QAR	"QRI "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
ROL	"ROL "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
RUR	"RUR "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
RWF	"RF "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***9-	**,***,***9
SAR	"SR1 "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
SBD	"SI\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
SCR	"SRs "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
SDD	"SDD "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
SDP	"£S "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
SEK	"SEK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SGD	"S\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
SHP	"SHP "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
SIT	"SIT "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SKK	"SKK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SLL	"Le "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
SOK	"SOK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SOS	"SoS "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
SRG	"Su f"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
STD	"Db "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
SUR	"SUR "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SVC	"SVC "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
SYP	"£Sy "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
SZL	"E "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
THB	"Bht "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
TMM	"TMM "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
TND	"TuD "	3	comma	period	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***,***,***,***9.999-	**,***,***9
TOP	"T\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
TPE	"TPE "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***9-	**,***,***9
TRL	"TL "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
TTD	"TT\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
TWD	"NT\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9

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General Formats

Table C-1. Currency Formats

ISO Code	Desc	Dec. Places	Thous. Sep.	Dec. Point Indic.	"Z" Format	"\$" Format	"W" Format
TZS	"TSh "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
UAK	"UAK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
UGS	"USh "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
UGX	"UGX "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,**9-	**,***,**9
USD	"US\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
USN	"US\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
USS	"US\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
UYU	"N\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
UYU	"UYU "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
VEB	"Bs. "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
VND	"VND "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
VUV	"VUV "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,**9-	**,***,**9
WST	"WST "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
XAF	"CAF "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,**9-	**,***,**9
XCD	"EC\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
XEU	"XEU "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
XOF	"CAF "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,**9-	**,***,**9
XPF	"CPF "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,**9-	**,***,**9
XXX	" "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
YDD	"SYD "	3	comma	period	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,**9.999-	**,***,**9
YER	"YRI "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
YUD	"YUD "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***,***,***,***,**9-	**,***,**9
YUN	"YUN "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
ZAL	"R "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
ZAR	"R "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
ZMK	"ZMK "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
ZRN	"ZRN "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
ZRZ	"Z "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9
ZWD	"Z\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,***,**9

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C.2 Date Formatting

In Global ICC, there are two types of dates: pre-formatted and unformatted.

Pre-formatted Dates

Pre-formatted dates are used only in Transaction Journal (TJ) screens (all in Chapter 4). A pre-formatted date shows and prints only a day and month. These are specified to have a length of five characters. This is to be displayed *exactly* as it is received, without additional reformatting. The application cannot determine the order in which the date and month have been sent. It is assumed that the pre-formatted date received contains the full five (5) characters (for example, "01/01" or "12-12").

Unformatted Dates

Unformatted dates are formatted for display based on the language of the session. In all languages, dates are displayed in the format "DD MMM YYYY" (for example, 09 Jan 1996).

For TJ, unformatted dates are formatted as "DD/MM".

Other than TJ, unformatted dates are expected in all circumstances in which a date is specified in the APS.

Table C-2 shows the abbreviation that should be used for each month, for both screen display and for printed records. The abbreviations for the remaining Global ICC languages can be found in their respective Global ICC Language Screen by Phrase reports.

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STR 44466-S

Table C-2. Month Abbreviations (English)

Language	Month	Screen Abbrev.	Print Record Abbrev.
English	January	Jan	JAN
	February	Feb	FEB
	March	Mar	MAR
	April	Apr	APR
	May	May	MAY
	June	Jun	JUN
	July	Jul	JUL
	August	Aug	AUG
	September	Sep	SEP
	October	Oct	OCT
	November	Nov	NOV
	December	Dec	DEC

C.3 Product Term Formatting

Balance Inquiry screens may display the Product Term field (7261) for the Time Deposits Product Category (see Table 6-1). This explains how this field is to be formatted.

Format the Product Term using the following elements from the Message 4501 response:

- Product Term (elemid 7261)
- Period Code (elemid 8401)

If Product Term = 1, based on the Period Code, display:

- 1 = "Z9 Day"
- 2 = "Z9 Week"
- 3 = "Z9 Month"
- 4 = "Z9 Year"

If Product Term > 1, based on the Period Code, display:

- 1 = "ZZ9 Days"
- 2 = "ZZ9 Weeks"
- 3 = "ZZ9 Months"
- 4 = "ZZ9 Years"

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STR 48209-S

C.4 Interest Rate Formatting

Balance Inquiry screens may display interest rates (for examples, element IDs 7600, 7612). These rates are received from the FEP as a string of six to 12 characters long with four implied decimal places. They are displayed in screens based on the account currency code as follows:

ZZ,ZZZ,ZZ9.9999% for account currency code with period (".") as the decimal separator

ZZ.ZZZ.ZZ9,9999% for account currency code with comma (",") as the decimal separator

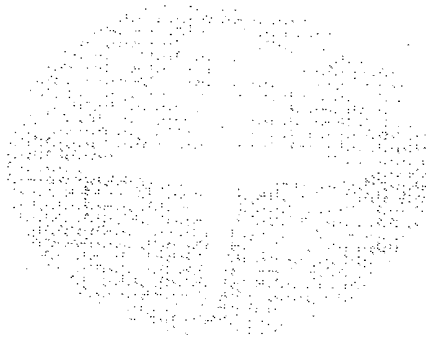
For example, if the FEP returns the value 356000 for a US\$ loan, the screen display will be 35.6000%.

Appendix D

ICC Cash Dispense Algorithm

When Global ICC is installed in a business that offers CAT services to its own customers, the On-Us Cash Dispense Algorithm is modified to indicate the amount selections that should be offered to ICC customers. Normally, these amounts are a subset of the amounts and bill mixes defined for the On-Us application.

For standalone ICC installations, the cash dispense algorithm must be specified independently of any other algorithm based on the currency and bill types to be dispensed at each standalone configuration.



Appendix E

Logging Information

The CAT applications maintain logs of all sessions and transactions. For each customer session, a start session record and an end session record are logged. In addition, each individual transaction is logged at its conclusion, whether or not it succeeds.

All places in which logs are updated are explicitly noted in the flowcharts, with the exception of exits and timeouts during a transaction. Whenever these occur, a log message should be generated with an appropriate completion code signifying that the transaction was terminated by either exit or timeout.

Application logs may be displayed via the CAT Peruse Utility through a separate terminal.

Each record logged by the application has a fixed format. Table E-1 shows which data elements are written to the log for each transaction.

Table E-1. Elements to Log

Element to Log	Withdrawal	Balance Inquiry and TJ	Transfer
Message Sequence Number	X	X	X
Terminal ID	X	X	X
Card Number	X	X	X
Transaction Date	X	X	X
Transaction Time	X	X	X
Transaction Type	X	X	X

Table E-1. Elements to Log (cont)

Element to Log	Withdrawal	Balance Inquiry and TJ	Transfer
Source Account Number	X	X	X
Source Product Type Code	X	X	X
Source Currency Code	X	X	X
Transaction Amount	X		X
Transaction Currency Code	X		X
Transaction Currency Type	X		
Destination Account Number			X
Destination Product Type Code			X
Destination Currency Code			X
Host Response Code	X	X	X
Action Code	X	X	X
Completion Code	X	X	X
Completion Reason Code	X	X	X

EXPRESS MAIL NO. EVS1799833US

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Global International Citicard (ICC) CAT Application Product Specification

May 21, 1996

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Preface

This Application Product Specification (APS) is one of a series of TTI specifications that defines the CAT products and their ICC applications.

It supports the Global Consumer Bank's (GCB) requirements for Phase 4 of the Global ICC (GICC) project. The intended audience is GCB and TTI development managers and staff.

This APS applies to, and provides standards for, all CAT and CAT-based platforms, including DUCAT 2C, CAT 2D, PC CAT NT, production CASST, and "projection" home banking platforms.

The publication is organized as follows:

- | | |
|------------------|--|
| Chapter 1 | Introduction
provides an overview of the ICC CAT applications. It also defines the defaults, variables, and conventions applicable to the product. |
| Chapter 2 | Product Select
provides the special table, procedures, screen flow diagrams, and screens for Product Select. |
| Chapter 3 | Withdrawal
provides the special table, procedures, screen flow diagrams, and screens for Withdrawal. |
| Chapter 4 | Balance Inquiry
provides the special table, procedures, screen flow diagrams, and screens for Balance Inquiry. |
| Chapter 5 | Transfer
provides the special table, procedures, screen flow diagrams and screens for Transfer. |
| Chapter 6 | Common Screens and Procedures
provides the screen flow diagrams, and screens for Common Screens and Procedures. |

Internal

Chapter 7	Printed Record Formats provides the message screens and sample record screens.
Appendix A	ICC Card Prefix provides information about the card prefix files.
Appendix B	Currency Code Information provides information about currency codes.
Appendix C	Currency Formats Table provides information about the currency formats table.
Appendix D	ICC Cash Dispense Algorithm provides information about the cash dispense algorithm.
Appendix E	Logging Information provides logs of all sessions and transactions.
Appendix F	Change Record Index provides information of system trouble reports.
Glossary	defines terms and abbreviations used in this publication.

Conventions

The following conventions pertain to this publication:

- Where the functionality for all CAT devices is identical, the term "CAT" is used.

Related Reading

The following documents are related to the subject matter of this publication:

Transaction Technology, Inc., *Common CAT Configuration (CAT.ev) File Parameters*, TTI-96-0003-00, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *CAT/FEP Message-Level Interface Specification, Volume I—Common CAT*, TTI-95-0067-00, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Common CAT Network Error Codes Specification*, TTI-95-0066-00, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Common CAT Specification*, TTI-94-0129-01, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *International Citicard (ICC) Standalone CAT Application Product Specification*, TTI-95-0043-00, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Global International Citicard (ICC) CAT Application Product Specification—Portuguese*, A-968, TTI, Santa Monica, California, 1996.

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Transaction Technology, Inc., *Global International Citicard (ICC) CAT Application Product Specification—Greek*, A-973, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Global International Citicard (ICC) CAT Application Product Specification—French*, A-974, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Global International Citicard (ICC) CAT Application Product Specification—German*, A-975, TTI, Santa Monica, California, 1996.

Transaction Technology, Inc., *Global International Citicard (ICC) CAT Application Product Specification—Dutch*, A-976, TTI, Santa Monica, California, 1996.

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Chapter 1

Introduction

This APS supports the TTI business requirements for Phase 1 of the Global ICC product. It describes the software operation of the Global ICC application in the English language, which was developed as a part of Release ICC603 (ICC Phase 5).

The Global ICC product primarily serves Citicorp and Citibank customers who require access to their accounts via a Customer Activated Terminal (CAT) when they are away from their home financial institution.

This application is installed in Citicorp and Citibank businesses that offer CAT, Drive-Up CAT (DUCAT), Personal Computer Customer-Activated Terminal (PC CAT), and production Customer Activated Sales and Services Terminals (CASST) services, to their own customers. The business' local CAT application, if there is one, performs card processing. In the absence of a local CAT application, this function is performed by the application "Card Processing for Standalone ICC CAT" (documented in the APS of the same name, document number TTI-95-0043-00).

Card Processing then determines where the card is from. If it is from outside the local region, it is identified as an ICC customer. All subsequent processing for ICC customers is then performed by the Global ICC Application.

This chapter describes the following Global ICC functions:

- Supported Transactions (Section 1.1)
- Card Prefix File (Section 1.2)
- Definitions, Terms, and Conventions (Section 1.3)
- External Service Provider Description (Section 1.4)
- Application Defaults (Section 1.5)

1.1 Supported Transactions

The following transactions are supported:

- Cash Withdrawal
- Cash Advances
- Balance Inquiry
- Transaction Journal
- Transfer and Transfer Payments

Each of these transactions is supported for any currency defined by the International Organization for Standardization (ISO).

1.2 Card Prefix File

The card prefix file provides the application with information specific to the card being used. Since most cards processed by this application are Citicorp or Citibank cards, cards about which Citicorp knows substantial information, extensive use is made of a card prefix file.

The card prefix file is maintained on the Front-End Processor (FEP). The application requests the card prefix information for the card being used via Function Code 4117 (Request For Card Prefix Table).

The card prefix file supplies default currency and customer service referral information to the application.

1.3 Definitions, Terms, and Conventions

The following contains terms, definitions and conventions found in this document.

1.3.1 Glossary of Terms

Action Code

FEP error codes are mapped into Action Codes by the application/integrator interface and used by the CAT software to determine what action to perform based on network response.

Background Message

A message that is sent from the CAT to the host processor for which the CAT does not have to wait for an immediate response. The CAT session may continue until either the response from the message sent is required for continued processing, or the CAT needs to send another message to the host processor.

Bankcard - (Citicorp and Citibank Bankcard)

For most CAT applications, bankcards are cards issued by Citicorp or Citibank. These are either credit cards (for example, MasterCard® or VISA®) or travel and entertainment cards (for example, Diners Club®).

Bank Identification Number

A number embossed and encoded on plastic cards that indicates the institution that issued the card.

CA Category

See Citibank Account (CA) Category

CAT

Customer Activated Terminal is a terminal assembled by Citicorp TTI that is used as the strategic automated teller machine (ATM) for Citibank and Citicorp businesses worldwide.

Card Prefix Table (CPT)

A table that contains information about the cards supported at the CAT. That CPT may also contain a default entry if a specific card prefix is not found in the file.

Card Reader

The mechanism for reading the Magic Middle and/or the magnetic stripe on the customer's card. There are two types of card readers: dip readers and transport readers.

Cash Dispensing Mechanism (CDM)

The CAT delivery subsystem that dispenses cash and/or travelers checks to the customer.

Citibank Account (CA) Category

A generic grouping of one or more product types under a single heading. In this application, the On-Us ICC card customer is asked to choose

among these categories on the Main Menu. Based on the choice made from the Main Menu, a customized function menu is offered next. There are four CA categories in Global ICC:

- Checking or Current
- Savings and Investments
- Credit Cards
- Loans

CPT

See Card Prefix Table.

Depository

The CAT delivery subsystem that accepts deposit and payment envelopes from the customer.

Dip Reader

A type of card reader that works by the customer quickly inserting and removing his/her card in one motion.

DUCAT

Drive-Up CAT. A drive-up model of the CAT hardware.

External Service Provider (ESP)

A system that provides data to the CAT, usually a FEP. Most messages consist of a request from the CAT and a response from the FEP.

Front-End Processor (FEP)

A system to which all CATs in a business are connected. The FEP passes service provider information to the CAT application and possibly provides other functions, such as network control. Each business has its own FEP. Usually, local account information is maintained in the business' FEP. For Citibank accounts from other businesses and for Off-Us accounts, the FEP serves as a switch to route requests to CitiShare® and then onto the host of the other network.

Integrator

A part of the CAT software environment that handles message processing to the Host or FEP, including initialization, application requests, scam processing, Billing/Deposit Reversal retries, and the reporting of the ESP status on a Network Control Facility (NCF) inquiry.

Magic Middle Card

A card that contains customer information encoded internally in the card.

Magnetic Stripe Card

A card that contains customer information encoded magnetically on a stripe located on the back of the card.

PC CAT

A personal computer, located in a branch, that runs CAT applications with the assistance of a customer representative. Mainly in branches without a CAT.

PC Printer

A peripheral printer attached to a PC running PC CAT.

Personal Identification Number (PIN)

Represents the identification number selected by a customer as his/her personal access code.

Product Category Code

A standard categorization (as opposed to region or business-specific) used by Global ICC as a basis for display content and functionality supported. See NO TAG for a listing of these codes for Global ICC.

Product Type Code

A code indicator used by the CAT to differentiate among products.

Record Printer

A printer which provides a paper record of transactions conducted during the session.

Special Instruction Number (SIN)

A status code sent by the network to indicate a special condition that has resulted from a network request.

Transport Reader

A card reader which retains the customer's card throughout the session.

Touchscreen

A touch-sensitive CAT screen, completely eliminating the need for buttons. The system communicates with the customer through screens, graphics, and sound. The customer communicates with the system by putting his/her fingers on the touch-sensitive areas of the screen, as indicated by the screen graphic.

1.3.2 Related Applications and Abbreviations

Following is a list of applications and their abbreviations, which are referenced in this APS:

Abbreviation	Application Name
PS	Product Select (On-Us or Standalone ICC)
PN	Product Select (Generic ICC)
WN	Withdrawal
BN	Balance Inquiry
TN	Transfer
CN	Common Screens and Procedures

1.3.3 Flowcharting Conventions

This section details the standard flowchart symbols.

Application Change -



Denotes a transition in screen flows to a different application. To follow the flow, look for the screen number within the application flow symbol in the other application. Application flow proceeds from that point.

Onpage Connector -



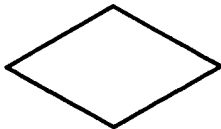
Exit to, or entry from, another part of the flowchart on the same page or sheet.

Offpage Connector -



Entry to, or exit from, another part of the flowchart on a different page or sheet.

Decision State -



Describes a condition that, depending upon the outcome, follows a different flow.

Document -



Denotes the output of a document (that is, a printed transaction record).

Input/Output -



Denotes an online input or output to or from the CAT (for example, cash or card read).

Integrator Call -

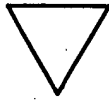


Describes a process in which the integrator is called and data is retrieved from or written to an ESP.

Manual Input -



Denotes a manual input (for example, deposit envelope).



Merge -

Used to merge screen flows.



Process -

Indicates that a specific action or process must happen (that is, Set Good-Read = True, or Set Card-Type = VISA).



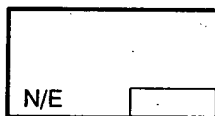
Subroutine -

Indicates the beginning and/or call to a process or subroutine (that is, Account Resolution or Personal Identification Number Validation).



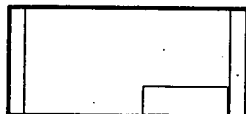
Present Screen -

Denotes the name of a screen or overlay and its number. The screen should be displayed immediately with no pause.



No Exit Screen -

Denotes the name of a screen, its corresponding number, and that this particular screen does *not* have an EXIT button. The screen should be displayed immediately with no pause.



Prepare Screen -

Denotes the name of a screen overlay and its number. The screen should have no transitions defined, and is displayed only when an overlay with transitions is displayed later.

1.3.4 Standard Data Element Conventions

This section describes the format of the information provided with each screen.

Data Name -

A name associated with a piece of variable data. Data items returned from an ESP use initial capitalization (for example, Eqv_Txn_Amt). All other variable names use lowercase letters only (for example, acct_desc5). Developers need not use the same variables or data names used in the APS.

I/O - Input/Output -

The I/O entry indicates whether the data item is an input or an output variable.

Format -

For output variables, the format entry defines how to display the data item on the screen. If the data item is an input variable, the format designates how to format the data after the screen is terminated.

X(n) -

Alphanumeric output variable, n characters in length.

X(n) / \$ X(n) / W and X(n) / Z -

These field formats indicate three different ways to format the output of numerical data, where *n* is the length of the field in characters. All three formats have truncated leading zeroes. In formats with a currency descriptor or with decimal places, Table C-1, Currency Formats, indicates which descriptor to use, the thousands delimiter, the decimal delimiter, and the number of decimal places to include. The currency descriptor floats in front of the numerical amount.

\$ Includes a currency descriptor and decimal places
(\$100.00)

Z Includes decimal places, but no currency descriptor
(100.00)

W Includes a currency descriptor, but no decimal
places (\$100)

Conceptually, this format is the same as a \$\$\$\$,\$\$9.99-, except that the currency descriptor can vary.

9(n) -

Numeric output variable of the maximum transfer value.
Always display n digits, including leading zeroes.

L-R-V-C Right-Left-Variable -

This L-R-V-C entry indicates how the output variable should be justified.

"L" denotes left justified display of the variable, leaving any additional unused character positions to the right of the display.

"R" denotes right justified display of the variable, leaving any additional unused character positions to the left of the display.

"V" denotes left justified display of the variable where any unused character positions are truncated, and following text (or variables) on the display line is shifted to the left, one character after the end of the variable.

"C" denotes centered justification of the variable within the maximum field size.

1.3.5 Screen Numbers

This section lists the range of valid screens per application.

Application Screen Type	First 2 Positions	Last 2 Positions
Product Select	PN55XX	01-99
Balance Inquiry	BN58XX	01-49
Transfer	TN57XX	01-99
Withdrawal	WN56XX	01-99
Common Screens	CN59XX	01-99
Printer Records	PR00XX	01-50

1.4 External Service Provider Description

The ESP used for all ICC installations is the FEP. The CAT/FEP MLIS, TTI-95-0067-00 defines the messages sent between the CAT and the FEP.

1.5 Application Defaults

The following default values should be used by this application unless specifically stated in the screen definition.

1.5.1 Description of Timeouts

This section defines default values used in this APS whenever the timeout value is not explicitly stated in the flowchart for a screen. The examples here define common values that can be used for any business not having specific requirements for different timeout values. These values are from the customer's viewpoint.

1.5.1.1 General Screens

The general screen timeout is 45 seconds. This is a timeout while waiting for the user to touch the screen.

1.5.1.2 Error Screens

The default timeout for error screens that terminate the session (that is, return to the Hello screen) is seven seconds.

1.5.1.3 N/E (Action) Screens

These screens stay up for as long as it takes to prepare and present the next screen, but no less than a minimum of 2 seconds. The minimum is specified here in order to prevent the screen from "flashing" on and off without a customer being able to read what it says. (For an example of this screen, see CN5901 - "Just a Moment, Please.")

1.5.1.4 Cash Dispenser

The default timeout on the cash dispenser while waiting for the user to remove cash from the slot is 70 seconds.

1.5.1.5 Card Capture

The default timeout on the transport card reader while waiting for a user to take his/her card after it has been ejected is 24 seconds.

1.5.1.6 ESP/FEP

The screen timeout while waiting for a response from an ESP is specified during the detailed design phase and is not a part of this APS.

1.5.1.7 PIN Entry

The default timeout while waiting for a user to enter a PIN is 20 seconds.

1.5.2 Font Specifications

TTI's Application Generation System (AGS) has several font sizes available for non-pictographic alphabets. The two font sizes used are 40 characters across by 20 lines down (abbreviated as 40 x 20), and 53 characters across by 24 lines down (abbreviated as 53 x 24).

The default font to be used is the 40 x 20 font. This font is represented on the screen displays in this APS by the font and point size you are currently reading. The 53 x 24 font is represented on the screen displays in this APS by the following font and point size:

This smaller text represents the 53 x 24 font.

Note

When the 53 x 24 font is used, the column number indicators above the screen displays in this APS are not accurate. When AGS screens are generated, the starting and ending column positions must be estimated based on the screen representation in the APS.

All screens that require graphics, such as keypads, keyboards and menus, do not require a column-to-column, row-to-row correlation between the APS and AGS screens. This is because the spacing of the APS electronic publishing software does not correspond directly to the spacing of AGS.

1.5.3 Color Conventions

This section describes the colors and color conventions used by the ICC application.

1.5.3.1 Text Display Colors

The colors used by this application appear in the table below. Red, Green and Blue (RGB) values are specified in the range from 0 to 255.

No.	Name	Red	Green	Blue
0	black	0	0	0
1	almost black	32	32	32
2	dark blue	48	48	80
3	dark blue-gray	80	80	112
4	medium blue-gray	112	112	144
5	pale blue-gray	144	144	176
6	light blue-gray	176	176	208
7	white	240	240	240
8	black	0	0	0
9	blue	0	0	176

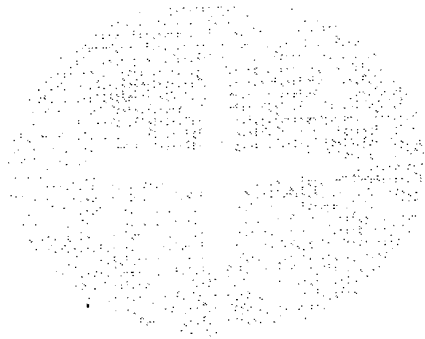
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No.	Name	Red	Green	Blue
10	red	144	48	48
11	dark green	38	177	94
12	green	0	250	64
13	dark yellow	243	205	13
14	yellow	250	220	40
15	white	240	240	240

1.5.3.2 Specific Elements

The standard colors used in an application for text display are:

Element Description	Color	Color Number
Prompt text	yellow	14
Key/Button text	white	7
Recap text	light blue-gray	6
Recap amounts	green	12
Border Color	dark blue	2
Background Color	dark blue	2



Chapter 2

Product Select

The Product Select application controls language selection, transaction selection, exit processing, session end, and printing of records.

ICC Standalone Product Select is the application that controls the start of session, initial card read, and routing to the generic ICC applications. The Standalone Product Select application is used only by ICC CATs that are **solely** running ICC applications; that is, CATs that accept only ICC cards (no On-Us cards are accepted).

This chapter covers the following:

- Supported ESP Messages (Section 2.1)
- Processing Overview (Section 2.2)
- Flowcharts (Section 2.3)
- Special Tables (Section 2.4)
- Screens (Section 2.5)
- Processes (Section 2.6)

2.1 Supported ESP Messages

The Product Select application uses the following ESP messages:

Message ID	Message Description
4117	Request for Card Prefix Table (CPT)
4604/X11FC	Profile with Balance/Citicard Summary

2.2 Processing Overview

The following provides the Product Select processing overview:

- If this card is an ICC card (it was found in the ICC Language Table), then build this session's language list. Otherwise, assume that the card is an Off-Us card and use only the languages designated as the Off-Us for language selection.
- Language Selection.
- PIN Entry.
- Citibank Account (CA) Category Selection (Debit Cards only).
- Send Profile Message.
- Transaction Selection.
- Exit Session.
 - Print record (if applicable).
 - Return card (if applicable).

2.3 Flowcharts

This section shows the flowcharts for the Product Select application.

Unless otherwise specified, pressing the **EXIT** key on any screen will transition to Process 5552.

Similarly, timeouts activate the standard "Timeout" routine in Common Screens and Procedures.

Product Select

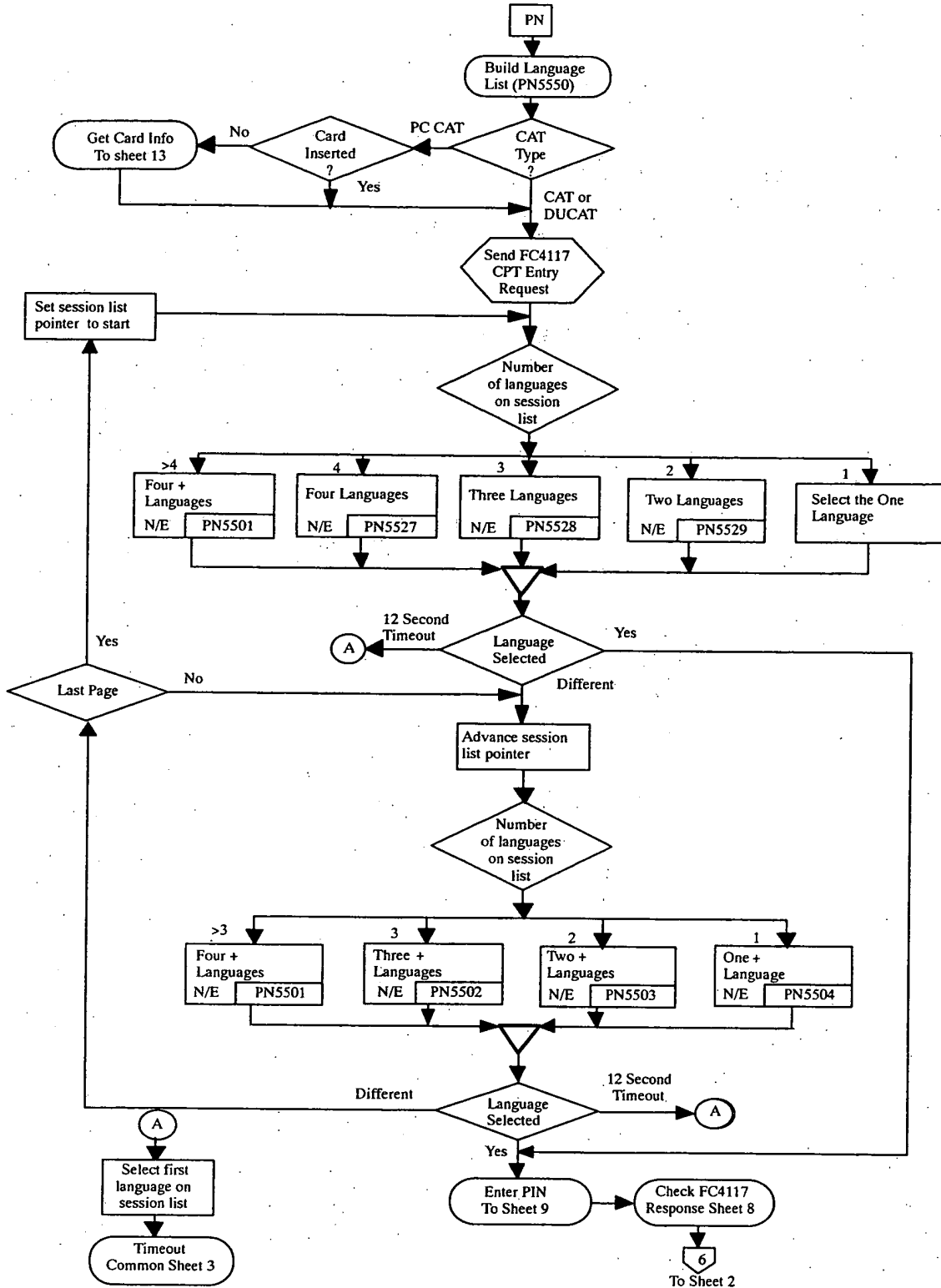


Figure 2-1. Language Selection (Sheet 1 of 13)

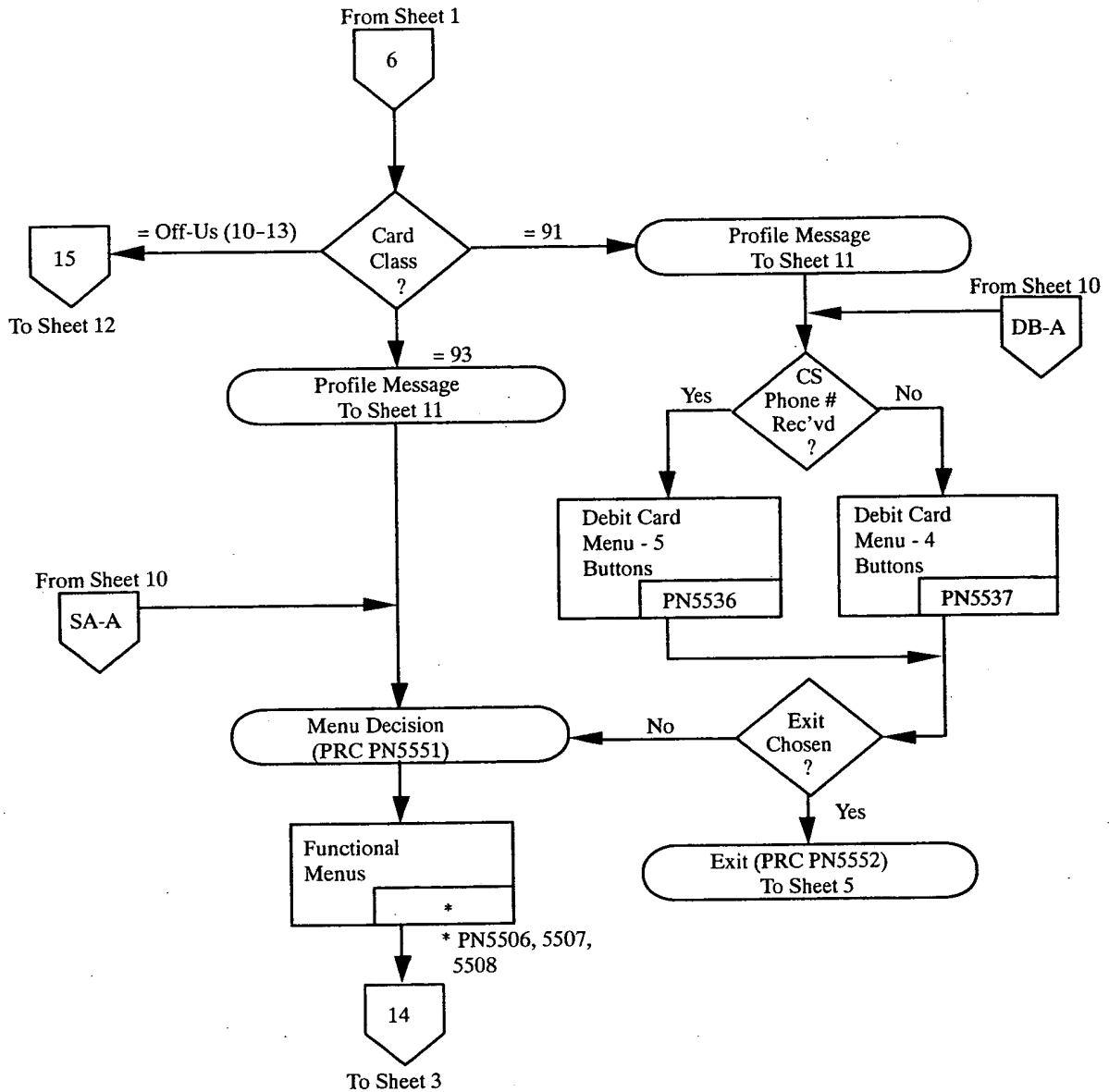


Figure 2-2. Transaction Selection (Sheet 2 of 13)

Product Select

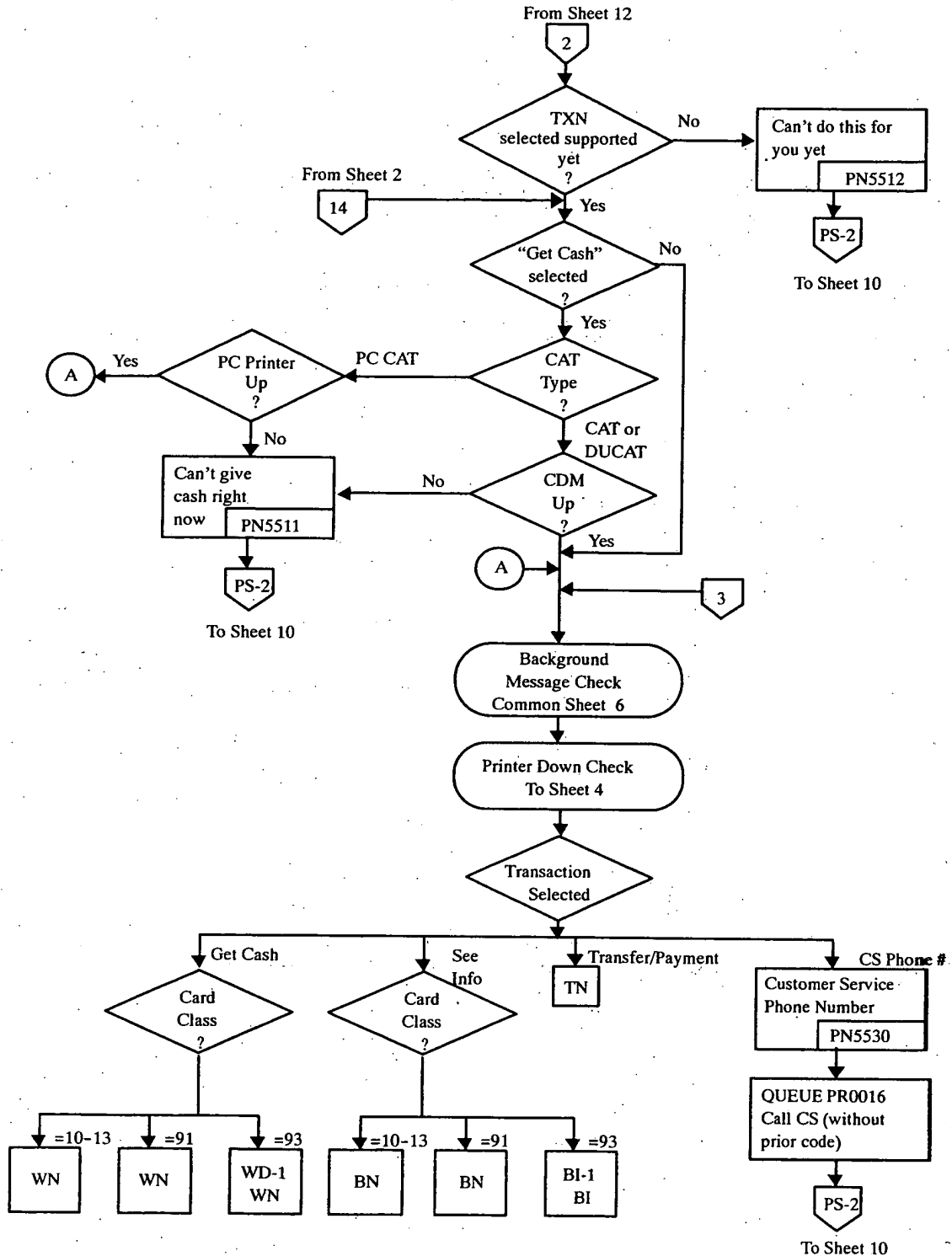


Figure 2-3. Transaction Selection - Continued (Sheet 3 of 13)

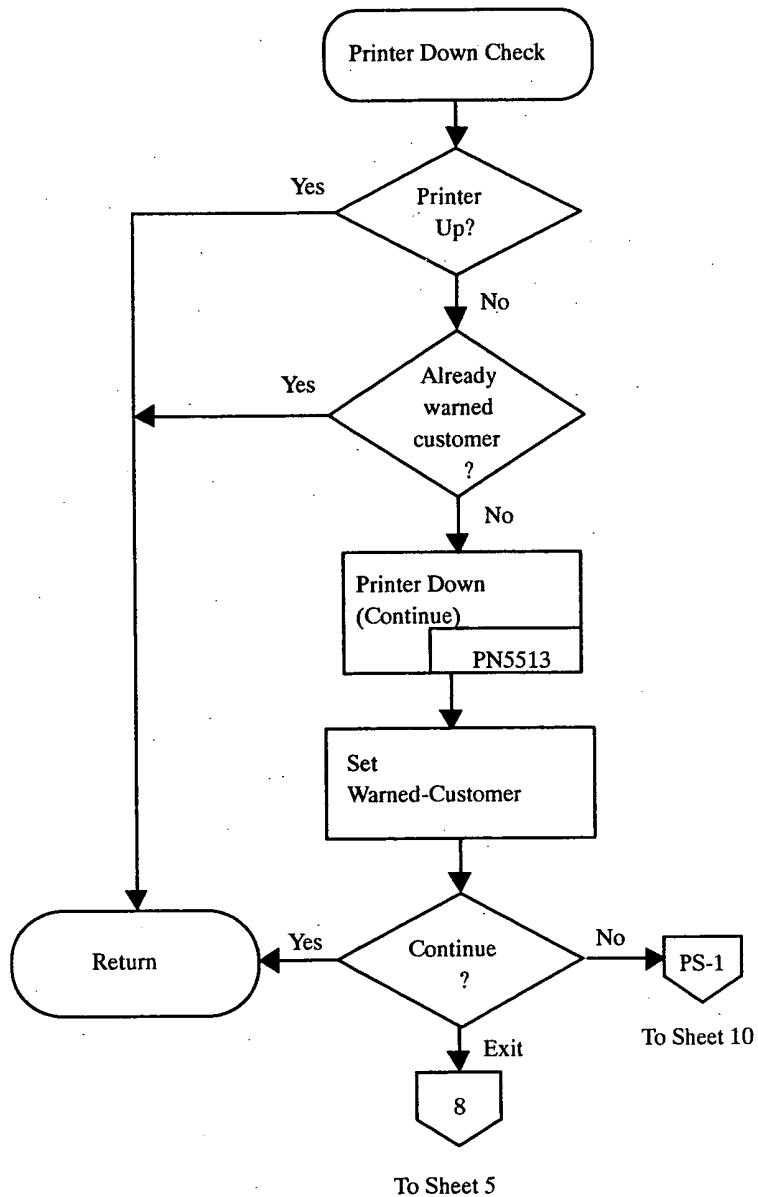


Figure 2-4. Printer Down Check (Sheet 4 of 13)

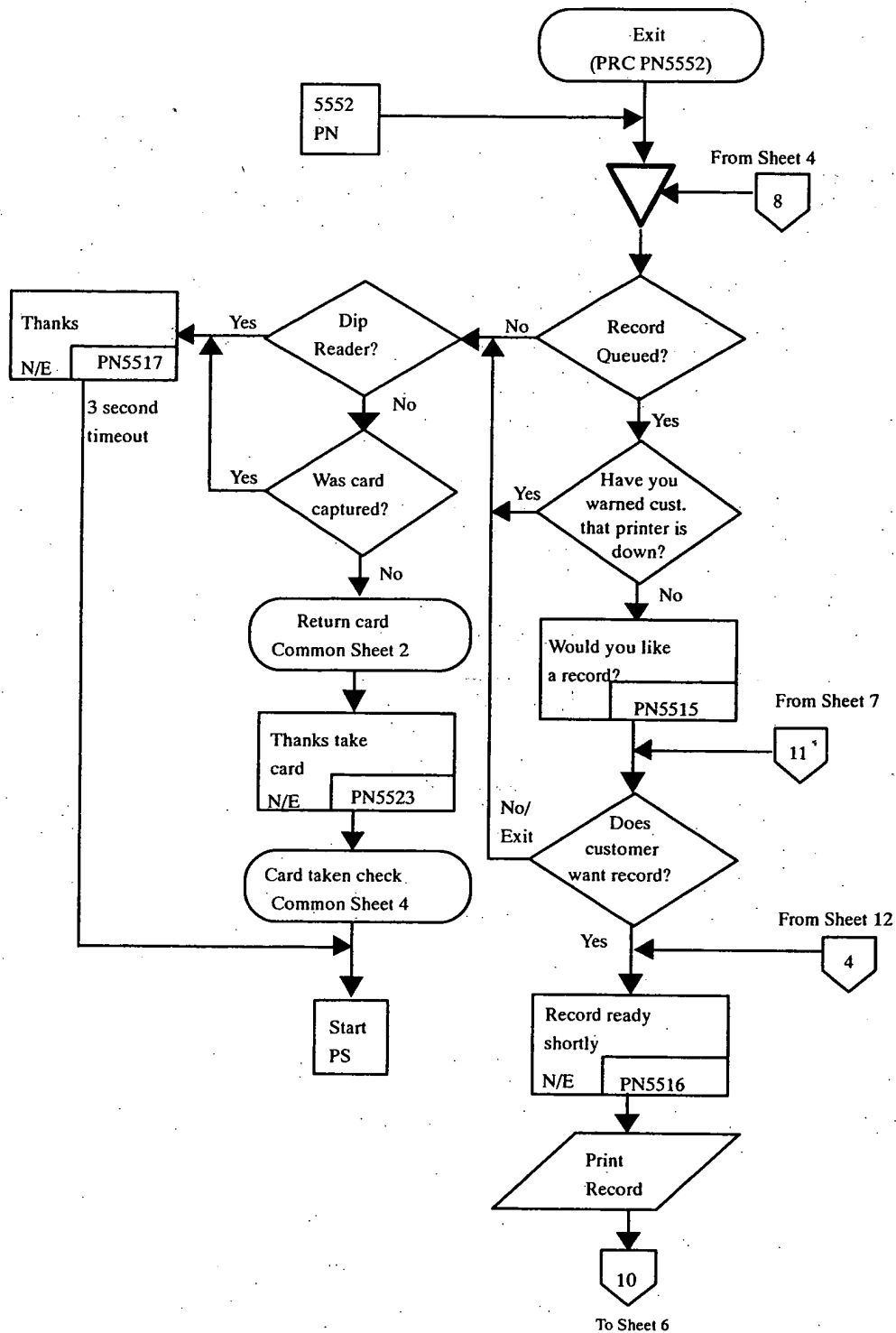


Figure 2-5. Exit Processing (Sheet 5 of 13)

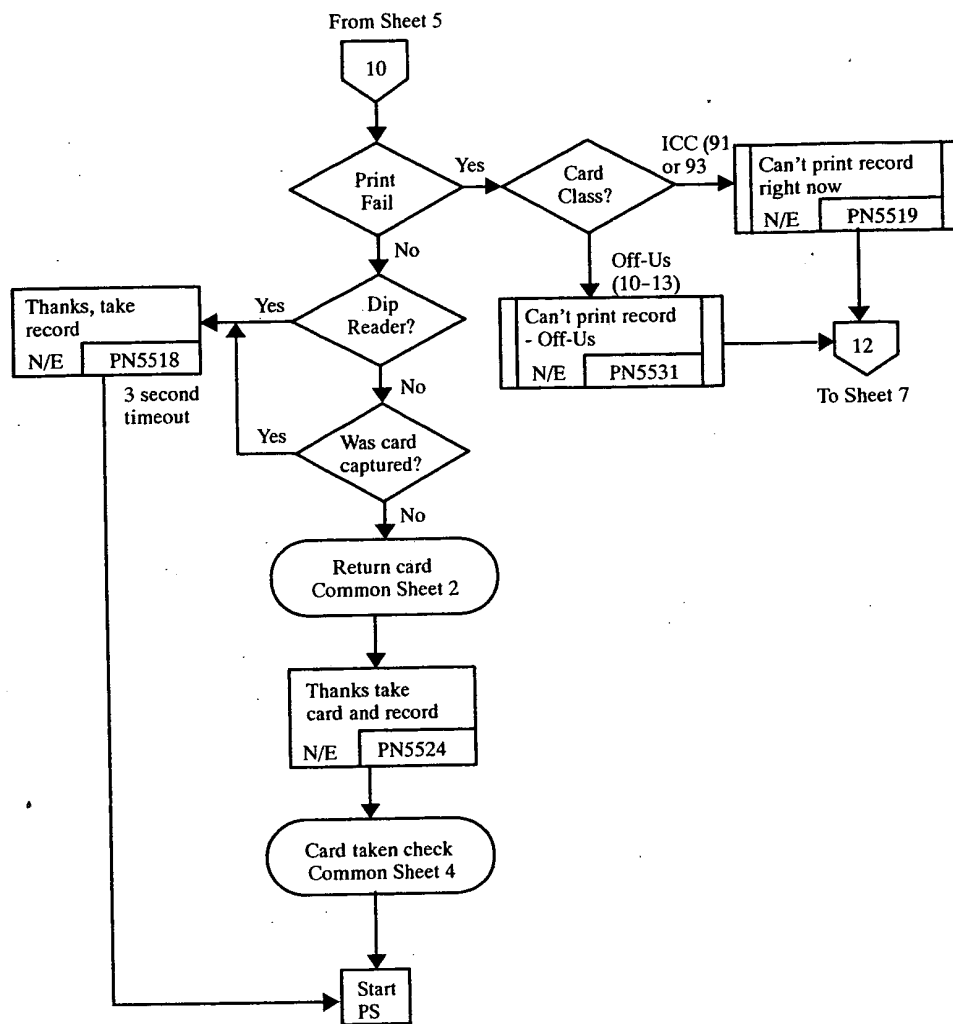


Figure 2-6. Exit Processing - Continued (Sheet 6 of 13)

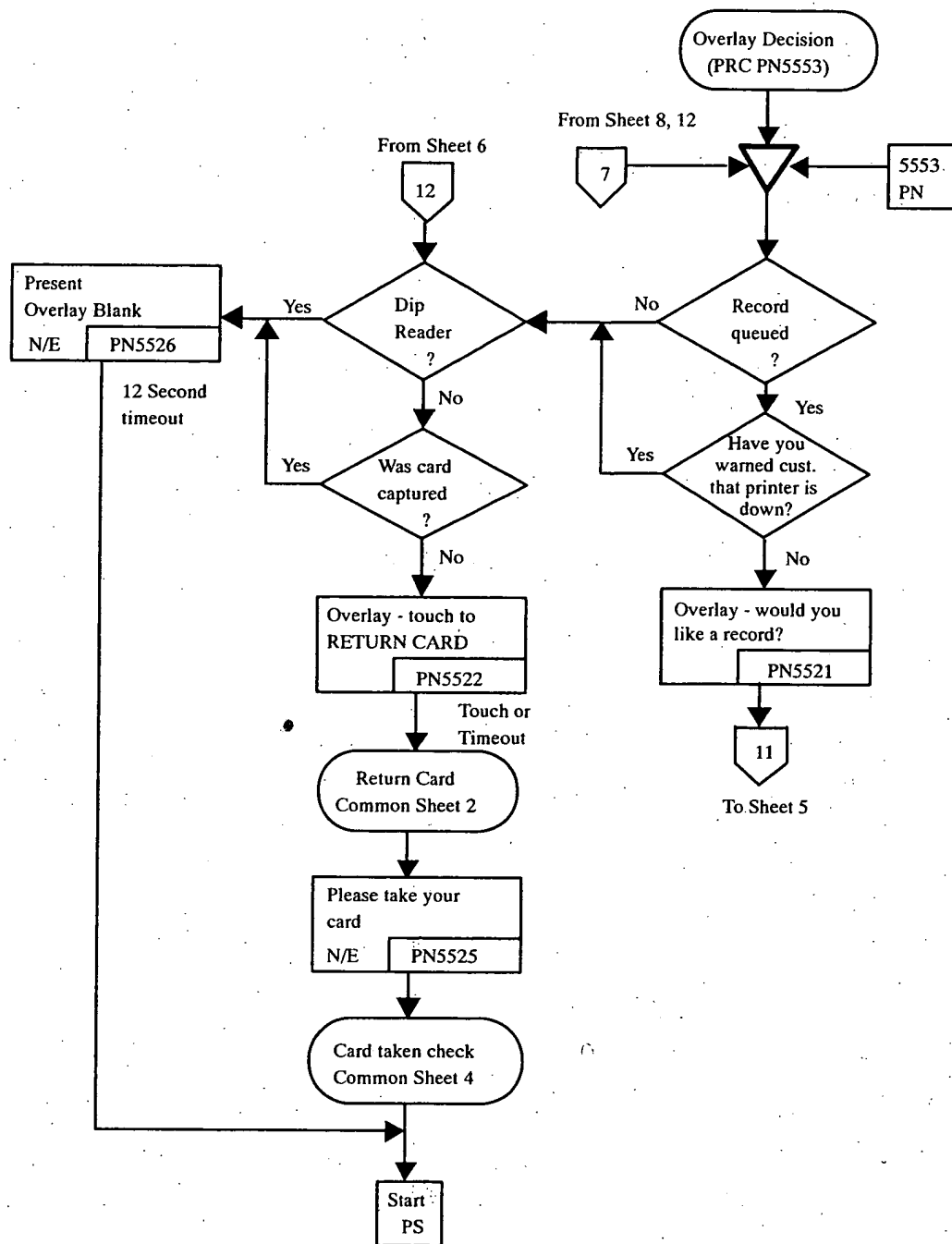


Figure 2-7. Overlay Decision (Sheet 7 of 13)

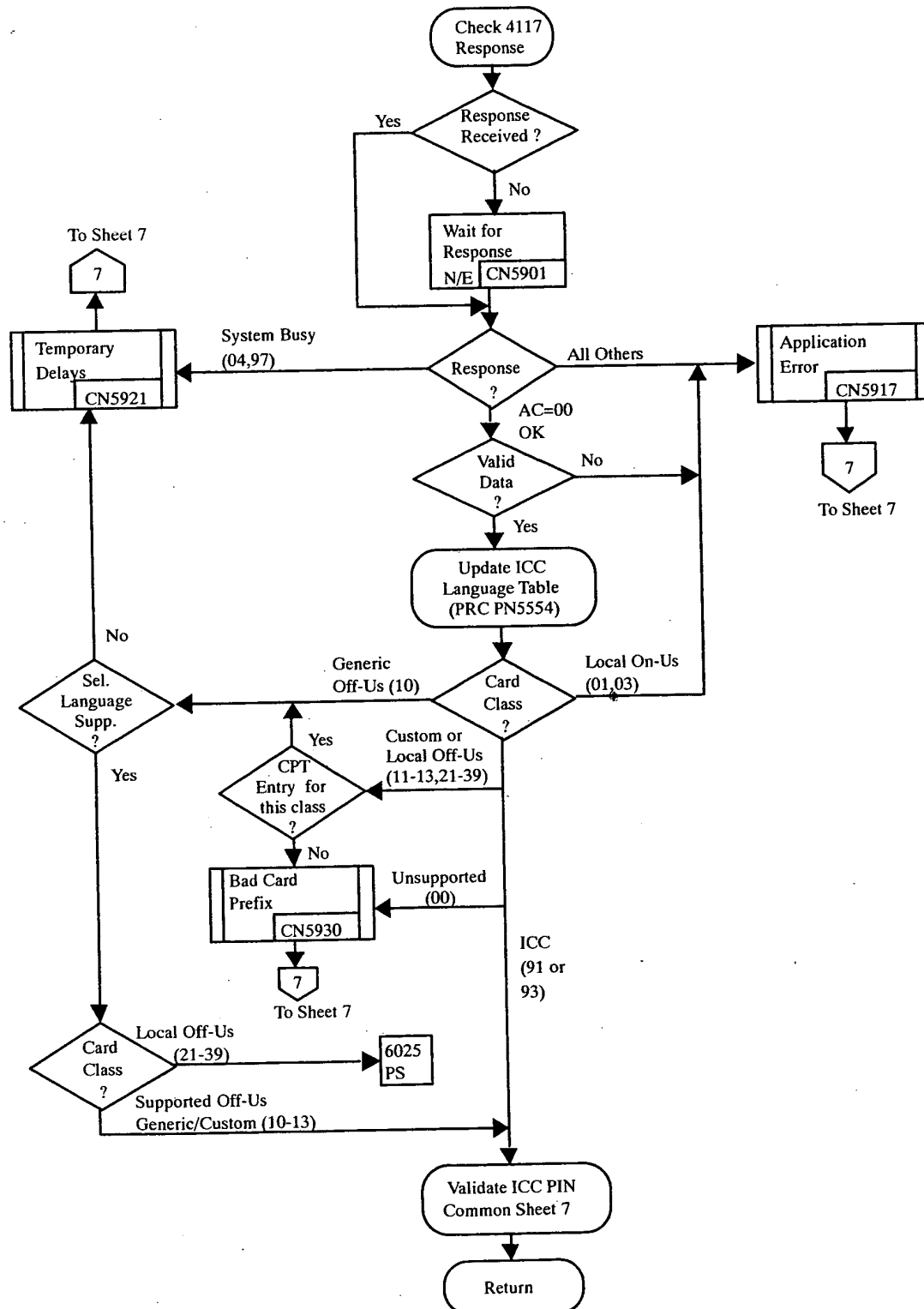


Figure 2-8. Check FC4117 Response (Sheet 8 of 13)

Product Select

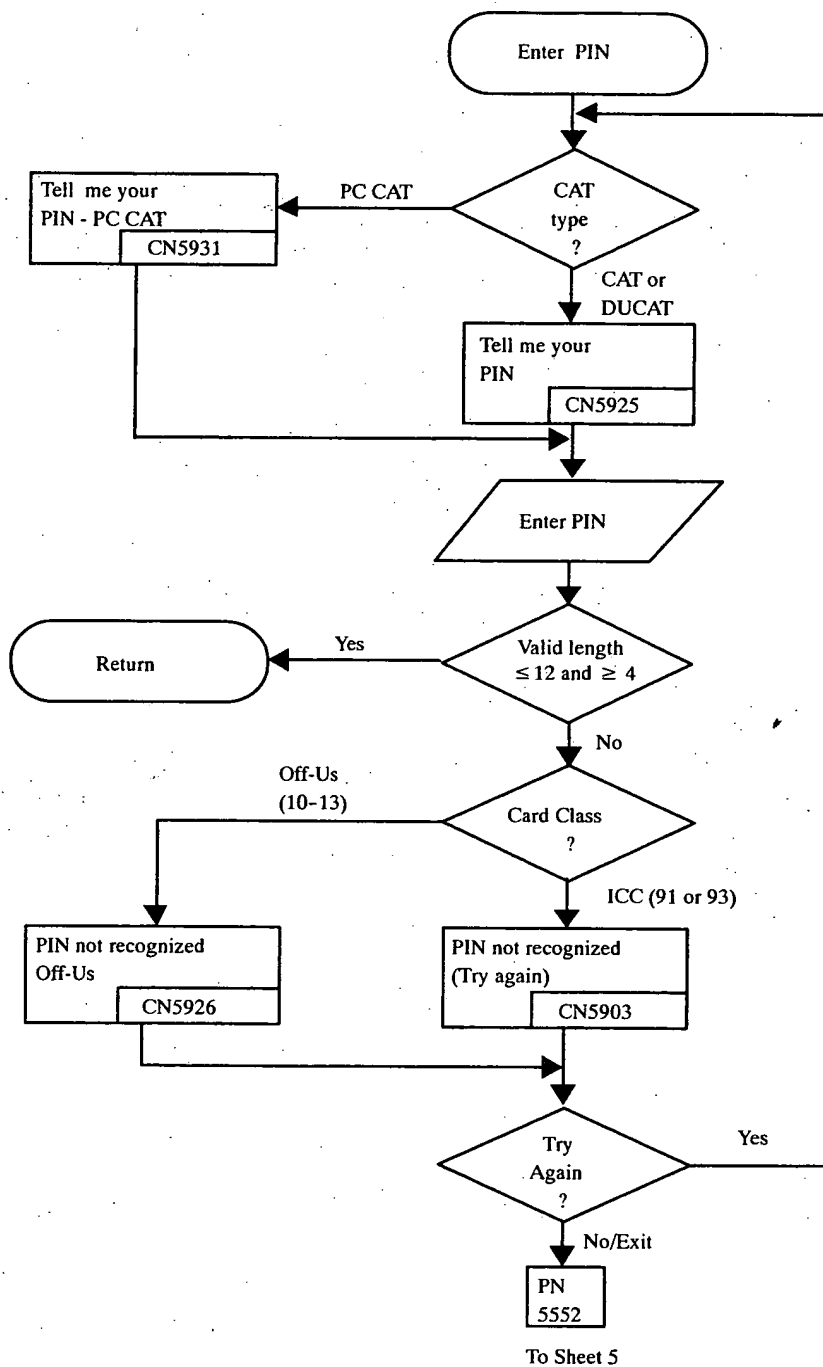


Figure 2-9. Enter PIC/PIN (Sheet 9 of 13)

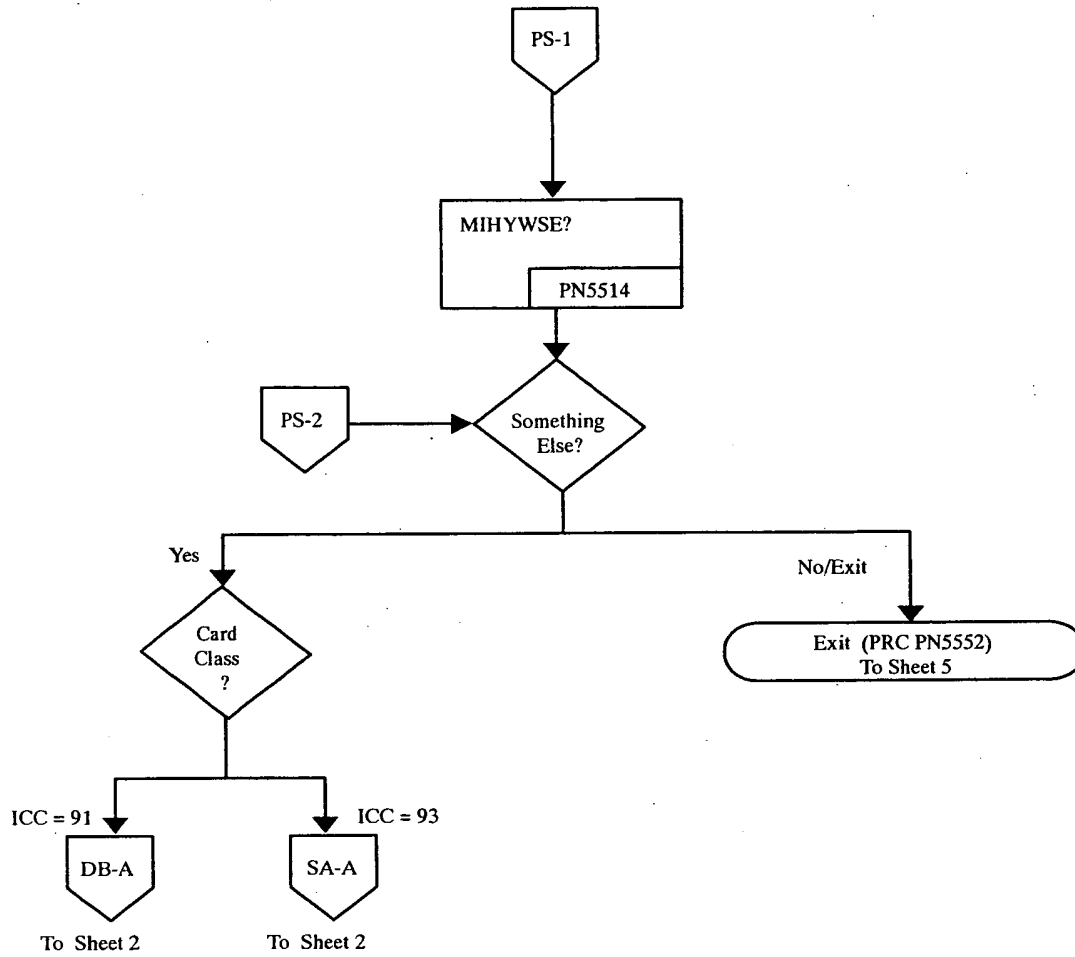


Figure 2-10. May I Help You With Something Else (Sheet 10 of 13)

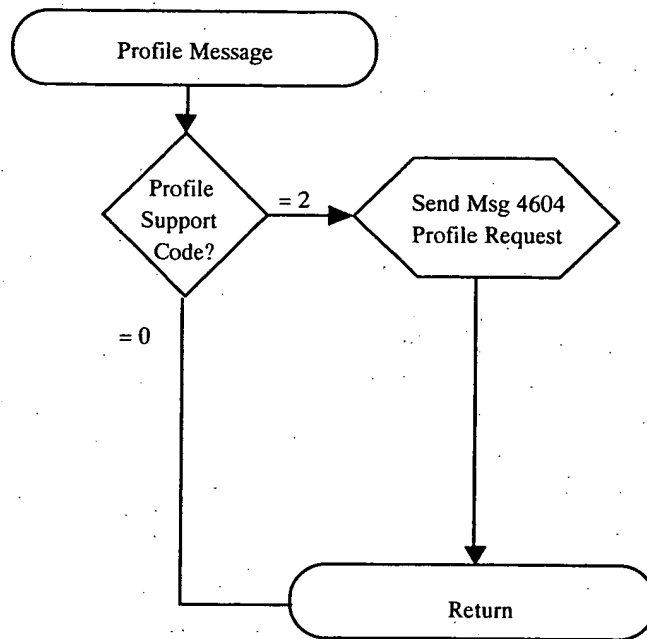


Figure 2-11. Profile Message (Sheet 11 of 13)

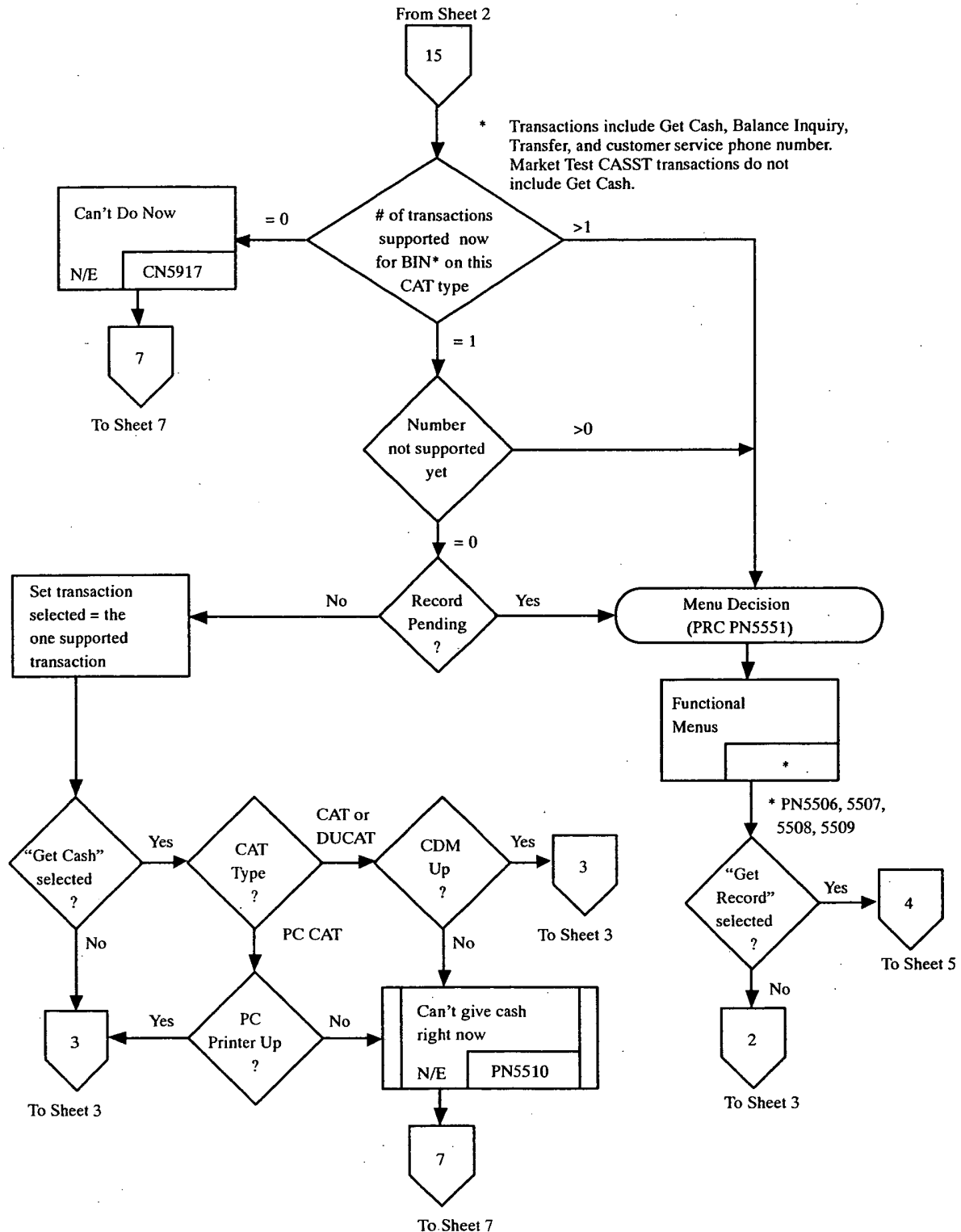


Figure 2-12. Off-Us Transaction Selection (Sheet 12 of 13)

Product Select

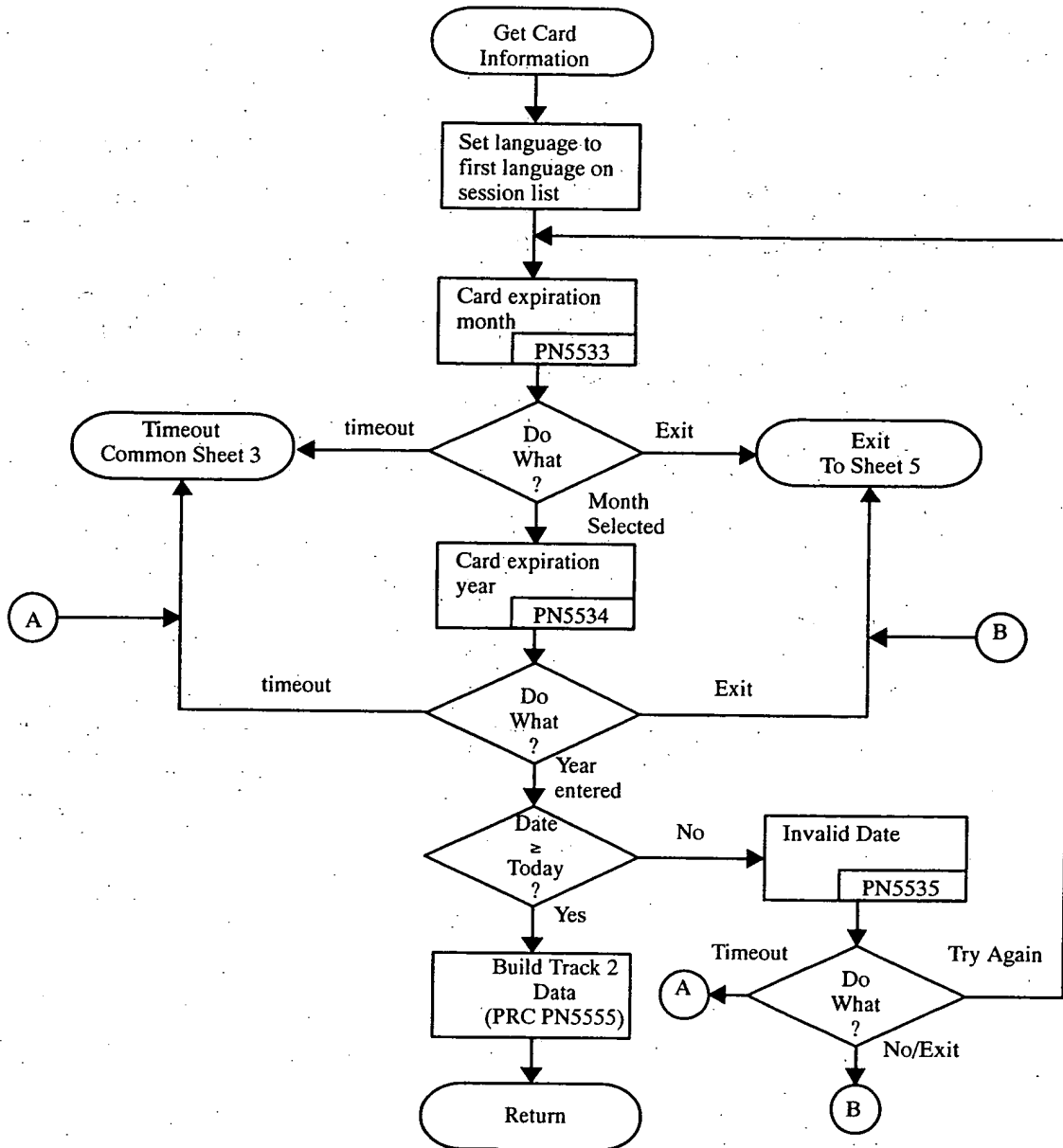


Figure 2-13. ICC Product Select Get Card Information (Sheet 13 of 13)

2.4 Special Tables

Table 2-1 shows the Citibank Account (CA) categories and the products that make them up. The text for these Category and Product Names appear with minor grammatical variations in the screens, tables and Standard Data Elements throughout this publication.

Table 2-1. CA and Product Category Names

CA Category Name	Product Category Name	Product Category Code
Checking or Current	Checking/Current	1
Savings and Investments	Savings	2
	Money Market	3
	Time Deposit	4
	Other Savings/Investment	5
Credit Cards	Visa	9
	MasterCard	10
	Diners Club	11
Loans and Other Credit	Line of Credit	6
	Mortgages	7
	Other Loans	8

Table 2-2 shows the functional menus that get built based on the type of card the customer is using. In the case of a debit card, the functional menus are customized to the Citibank Account (CA) category that the customer has chosen. The actual screen text and an explanation of how these menus are built for each of these card classes are shown in Table 2-3.

Table 2-2. Functional Menus by Card Type and Category

Card Type	Citibank Account (CA) Category	Functionality Available
Debit Cards (Card Class = 91)	Checking or Current	See Information
		Get Cash
		Make a Transfer or Payment
	Savings and Investments	See Information
		Get Cash
		Make a Transfer or Payment
	Credit Cards	See Information
		Get a Cash Advance
		Make a Transfer or Payment
	Loans and Other Credit	See Information
		Get Cash from Credit
		Make a Transfer or Payment
Credit/T&E Cards (Card Class = 93)	Credit Cards	See Information
		Get a Cash Advance
		Get Customer Service
Off-Us Cards (Card Classes 10-13)	N/A	Get Cash
		See Information
		Transfer Money
		Get Customer Service
		Get a Record

Table 2-3 is the Transaction Selection table. This table defines what the Functional Menu buttons (PN5506 – PN5509) should say depending upon the transactions supported for a given card class, the status of the peripherals, and the availability of certain pieces of data.

In Table 2-3, “cash available” means that the cash dispenser is up and at least one denomination of at least one currency supported by ICC is both configured for this CAT and currently available.

For PC CAT, “available” cash is not checked. Instead, the status of the PC CAT printer is checked.

NOTE

See Procedure *PRC PN5551* in Section 2.6 for more information.

Table 2-3. Transaction Selection

Transaction and Device Type		Button Text Centered	Button Text Top Line	Button Text Bottom Line
Get Cash (from Checking/Savings products and for Off-Us Cards - Card Classes 91 and 10-13)				
CAT or DUCAT	Supported - cash available	“Get Cash”	<blank>	<blank>
	Supported - cash not available	<blank>	“Get Cash”	“I can’t do this right now.”
	Not supported yet (only for Card Classes 10-13)	<blank>	“Get Cash”	“I can’t do this for you yet.”
PC CAT	Supported - PC Printer up	“Get Cash”	<blank>	<blank>
	Supported - PC Printer down	<blank>	“Get Cash”	“I can’t do this right now.”
	Not supported yet	n/a	n/a	n/a
Market Test CASST	There will not be a Get Cash button	n/a	n/a	n/a

Table 2-3. Transaction Selection (cont.)

Transaction and Device Type		Button Text Centered	Button Text Top Line	Button Text Bottom Line
Get a Cash Advance (from Credit Cards for Card Classes 91 and 93)				
CAT or DUCAT	Supported - cash available	"Get a Cash Advance"	<blank>	<blank>
	Supported - cash not available	<blank>	"Get a Cash Advance"	"I can't do this right now."
	Not supported yet	n/a	n/a	n/a
PC CAT	Supported - PC Printer up	"Get a Cash Advance"	<blank>	<blank>
	Supported - PC Printer down	<blank>	"Get a Cash Advance"	"I can't do this right now."
	Not supported yet	n/a	n/a	n/a
Market Test CASST	There will not be a Get Cash button	n/a	n/a	n/a
Get Cash From Credit (from Loans for Card Classes 91 and 93)				
CAT or DUCAT	Supported - cash available	"Get Cash from Credit"	<blank>	<blank>
	Supported - cash not available	<blank>	"Get Cash from Credit"	"I can't do this right now."
	Not supported yet	n/a	n/a	n/a
PC CAT	Supported - PC Printer up	"Get Cash from Credit"	<blank>	<blank>
	Supported - PC Printer down	<blank>	"Get Cash from Credit"	"I can't do this right now."
	Not supported yet	n/a	n/a	n/a
Market Test CASST	There will not be a Get Cash button	n/a	n/a	n/a
See Information (All Card Classes)				
All Devices	Supported	"See Information"	<blank>	<blank>
	Not supported yet (Only for Card Classes 10-13)	<blank>	"See Information"	"I can't do this for you yet."

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Table 2-3. Transaction Selection (cont.)

Transaction and Device Type		Button Text Centered	Button Text Top Line	Button Text Bottom Line
Make a Transfer or Payment (On-Us Debit Cards only-Card Class 91)				
All Devices	Supported	"Make a Transfer or Payment"	<blank>	<blank>
	Not supported yet	n/a	n/a	n/a
Transfer Money (for Off-Us only - Card Classes 10-13)				
All Devices	Supported	"Transfer Money"	<blank>	<blank>
	Not supported yet	<blank>	"Transfer Money"	"I can't do this for you yet."
Get Customer Service (for Standalone Credit Cards and Off-Us Cards - Card Classes 93 and 10-13)				
All Devices	Phone Number received in FC4117	"Get Customer Service"	<blank>	<blank>
Get a Record (for Off-Us Cards only - Card Classes 10-13)				
All Devices	Record Queued and Customer has <i>not</i> been warned that the printer is down.	"Get a Record"	<blank>	<blank>

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2.5 Screens

This section presents the screens and standard data elements for the Product Select application.

Screen PN5501. Four+ Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 1 what_language_1
2 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 2 what_language/what_language_c
3 |                                     | 3
4 | +-----+ | 4
5 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 5 language_1/language_1c
6 | +-----+ | 6
7 | +-----+ | 7
8 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 8 language_2/language_2c
9 | +-----+ | 9
10 | +-----+ | 10
11 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 11 language_3/language_3c
12 | +-----+ | 12
13 | +-----+ | 13
14 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 14 language_4/language_4c
15 | +-----+ | 15
16 | +-----+ | 16
17 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 17 diff_language/diff_language_c
18 | +-----+ | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
what_language_1	O	X(37)	L	If the first language on the session list is English, leave blank.
what_language	O	X(37)	L	If the first language on the session list is English, display "Thanks. What language shall we speak?".
what_language_c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_1	O	X(37)	L	If the first language left to display is English, display "Touch here to speak English".

STR 45217-S

Standard Data Elements: Screen PN5501 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
language_1c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_2	O	X(37)	L	If the second language left to display is English, display "Touch here to speak English".
language_2c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_3	O	X(37)	L	If the third language left to display is English, display "Touch here to speak English".
language_3c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_4	O	X(37)	L	If the fourth language left to display is English, display "Touch here to speak English".
language_4c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
diff_language	O	X(37)	L	If the first language on the session list is English, display "A different language".
diff_language_c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1.

Comments: Each button contains two data elements. An X(37) variable (language_N) is displayed when the language to be displayed is a non-pictographic language. A C(17) variable (language_NC) is displayed when the language to be displayed is a pictographic (for example, Chinese) language.

STR 45217-S
STR 48537-S

Screen PN5502. Three+ Languages

```

11111111112222222222333333333334
1234567890123456789012345678901234567890
+-----+
1 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 1 what_language_1
2 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 2 what_language/what_language_c
3 |                                     | 3
4 | +-----+ | 4
5 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 5 language_1/language_1c
6 | +-----+ | 6
7 | +-----+ | 7
8 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 8 language_2/language_2c
9 | +-----+ | 9
10 | +-----+ | 10
11 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 11 language_3/language_3c
12 | +-----+ | 12
13 | +-----+ | 13
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 diff_language/diff_language_c
15 | +-----+ | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
what_language_1	O	X(37)	L	If the first language on the session list is English, leave blank.
what_language	O	X(37)	L	If the first language on the session list is English, display "Thanks. What language shall we speak?".
what_language_c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_1	O	X(37)	L	If the first language left to display is English, display "Touch here to speak English".

STR 45217-S

Standard Data Elements: Screen PN5502 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
language_1c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_2	O	X(37)	L	If the second language left to display is English, display "Touch here to speak English".
language_2c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_3	O	X(37)	L	If the third language left to display is English, display "Touch here to speak English".
language_3c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
diff_language	O	X(37)	L	If the first language on the session list is English, display "A different language".
diff_language_c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1.

Comments: Each button contains two data elements. An X(37) variable (language_N) is displayed when the language to be displayed is a non-pictographic language. A C(17) variable (language_NC) is displayed when the language to be displayed is a pictographic (for example, Chinese) language.

STR 45217-S
STR 48537-S

Screen PN5503. Two+ Languages

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3	
4	
5	-----
6	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7	-----
8	
9	-----
10	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
11	-----
12	
13	-----
14	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
15	-----
16	
17	
18	
19	
20	

1 what_language_1
2 what_language/what_language_c
3
4
5
6 language_1/language_1c
7
8
9
10 language_2/language_2c
11
12
13
14 diff_language/diff_language_c
15
16
17
18
19
20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
what_language_1	O	X(37)	L	If the first language on the session list is English, leave blank.
what_language	O	X(37)	L	If the first language on the session list is English, display "Thanks. What language shall we speak?".
what_language_c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_1	O	X(37)	L	If the first language left to display is English, display "Touch here to speak English".
language_1c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

STR 45217-S

Standard Data Elements: Screen PN5503 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
language_2	O	X(37)	L	If the second language left to display is English, display "Touch here to speak English".
language_2c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
diff_language	O	X(37)	L	If the first language on the session list is English, display "A different language".
diff_language_c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1.

Comments: Each button contains two data elements. An X(37) variable (language_N) is displayed when the language to be displayed is a non-pictographic language. A C(17) variable (language_NC) is displayed when the language to be displayed is a pictographic (for example, Chinese) language.

STR 45217-S
STR 48537-S

Screen PN5504. One+ Language

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
+-----+-----+	
1 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1 what_language_1
2 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2 what_language/what_language_c
3	3
4	4
5	5
6	6
7 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7 language_1/language_1c
8	8
9	9
10	10
11	11
12	12
13 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	13 diff_language/diff_language_c
14	14
15	15
16	16
17	17
18	18
19	19
20	20
+-----+-----+	

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
what_language_1	O	X(37)	L	If the first language on the session list is English, leave blank.
what_language	O	X(37)	L	If the first language on the session list is English, display "Thanks. What language shall we speak?".
what_language_c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_1	O	X(37)	L	If the first language left to display is English, display "Touch here to speak English".
language_1c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

STR 45217-S

Standard Data Elements: Screen PN5504 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
-----------	-----	--------	---------	----------

diff_language	O	X(37)	L	If the first language on the session list is English, display "A different language".
diff_language_c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1.

Comments: Each button contains two data elements. An X(37) variable (language_N) is displayed when the language to be displayed is a non-pictographic language. A C(17) variable (language_NC) is displayed when the language to be displayed is pictographic.

STR 45217-S
STR 48537-S

Screen PN5506. Two Choice Functional Menu

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1|                                     1|
2| What would you like to do?         2|
3|                                     3|
4|                                     4|
5|                                     5|
6| +-----+                         6|
7| |                                     7| See Comments Below
8| +-----+                         8|
9|                                     9|
10|                                    10|
11|                                    11|
12| +-----+                         12|
13| |                                     13| See Comments Below
14| +-----+                         14|
15|                                    15|
16|                                    16|
17|                                    17|
18|                                +-----+ 18|
19|                                | EXIT | 19|
20|                                +-----+ 20|
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
buttonX_top (X=1-2)	O	X(29)	L	See Process PN5551 and Table 2-3 for text to display.
buttonX_cent (X=1-2)	O	X(29)	L	See Process PN5551 and Table 2-3 for text to display.
buttonX_bottom (X=1-2)	O	X(38)	L	See Process PN5551 and Table 2-3 for text to display.

Screen Transition: See Figure 2-2 and Figure 2-12.

Comments: Three variables are displayed on each **Functional Menu** button.

The first variable is called buttonX_cent, where X is the **Functional Menu** button number. buttonX_cent is displayed in the 40 x 20 character font, vertically centered within the button, left justified.

```
+-----+
|XXXXXXXXXXXXXXXXXXXXXXXXXXXX|buttonX_cent
+-----+
```

The second variable is called buttonX_top, where X is the **Functional Menu** button number. buttonX_top is displayed in the 40 x 20 character font, on the top line of a two-line button, left justified.

The third variable is called buttonX_bottom, where X is the **Functional Menu** button number. buttonX_bottom is displayed in the 53 x 24 character font, on the bottom line of a two-line button, indented two characters.

```
+-----+
|XXXXXXXXXXXXXXXXXXXXXXXXXXXX|buttonX_top
|          XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX|buttonX_bottom
+-----+
```

Screen PN5507. Three Choice Functional Menu

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 | What would you like to do?         | 2
3 |                                     | 3
4 |                                     | 4
5 | +-----+                         | 5
6 | |                               | 6 See Comments on PN5506
7 | +-----+                         | 7
8 |                                     | 8
9 | +-----+                         | 9
10 | |                               | 10 See Comments on PN5506
11 | +-----+                         | 11
12 |                                     | 12
13 | +-----+                         | 13
14 | |                               | 14 See Comments on PN5506
15 | +-----+                         | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

+-----+
| **EXIT** |
+-----+

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
buttonX_top (X=1-3)	O	X(29)	L	See Process PN5551 and Table 2-3 for text to display.
buttonX_cent (X=1-3)	O	X(29)	L	See Process PN5551 and Table 2-3 for text to display.
buttonX_bottom (X=1-3)	O	X(38)	L	See Process PN5551 and Table 2-3 for text to display.

Screen Transition: See Figure 2-2 and Figure 2-12.

Comments: See Comments on Screen PN5506.

Screen PN5508. Four Choice Functional Menu

```

      1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
2 | What would you like to do? |      |      |      |      |      |      |      |      |      |      |
3 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
4 | +-----+ |      |      |      |      |      |      |      |      |      |      |      |      |
5 | |         | |      |      |      |      |      |      |      |      |      |      |      |      |
6 | +-----+ |      |      |      |      |      |      |      |      |      |      |      |      |
7 | +-----+ |      |      |      |      |      |      |      |      |      |      |      |      |
8 | |         | |      |      |      |      |      |      |      |      |      |      |      |      |
9 | +-----+ |      |      |      |      |      |      |      |      |      |      |      |      |
10| +-----+ |      |      |      |      |      |      |      |      |      |      |      |      |
11| |         | |      |      |      |      |      |      |      |      |      |      |      |      |
12| +-----+ |      |      |      |      |      |      |      |      |      |      |      |      |
13| +-----+ |      |      |      |      |      |      |      |      |      |      |      |      |
14| |         | |      |      |      |      |      |      |      |      |      |      |      |      |
15| +-----+ |      |      |      |      |      |      |      |      |      |      |      |      |
16|      |      |      |      |      |      |      |      |      |      |      |      |      |      |
17|      |      |      |      |      |      |      |      |      |      |      |      |      |      |
18|      |      |      |      |      |      |      |      |      |      |      |      |      |      |
19|      |      |      |      |      |      |      |      |      |      |      |      |      |      |
20|      |      |      |      |      |      |      |      |      |      |      |      |      |      |
+-----+

```

18 | +-----+ |
19 | | EXIT | |
20 | +-----+ |

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
buttonX_top (X=1-4)	O	X(29)	L	See Process PN5551 and Table 2-3 for text to display.
buttonX_cent (X=1-4)	O	X(29)	L	See Process PN5551 and Table 2-3 for text to display.
buttonX_bottom (X=1-4)	O	X(38)	L	See Process PN5551 and Table 2-3 for text to display.

Screen Transition: See Figure 2-2 and Figure 2-12.

Comments: See Comments on Screen PN5506.

Screen PN5509. Five Choice Functional Menu

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1|                                     |1
2| What would you like to do?         |2
3|                                     |3
4| +-----+                         |4
5| |                               |5 See Comments on PN5506
6| +-----+                         |6
7| +-----+                         |7
8| |                               |8 See Comments on PN5506
9| +-----+                         |9
10| +-----+                       |10
11| |                               |11 See Comments on PN5506
12| +-----+                       |12
13| +-----+                       |13
14| |                               |14 See Comments on PN5506
15| +-----+                       |15
16| +-----+                       |16
17| |                               |17 See Comments on PN5506
18| +-----+ +-----+             |18
19| |                               |19
20| |                               |20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
buttonX_top (X=1-4)	O	X(29)	L	See Process PN5551 and Table 2-3 for text to display.
buttonX_cent (X=1-4)	O	X(29)	L	See Process PN5551 and Table 2-3 for text to display.
buttonX_bottom (X=1-4)	O	X(38)	L	See Process PN5551 and Table 2-3 for text to display.

Screen Transition: See Figure 2-12.

Comments: See Comments on Screen PN5506.

Screen PN5510. Can't Give Cash Right Now

```
1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 | I'm sorry. I can't give cash right | 7
8 | now.                               | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
```

Screen Transition: See Figure 2-12.

Screen PN5511. Can't Give Cash Right Now (Something Else)

```

11111111111222222222233333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 | I'm sorry. I can't give cash right | 7
8 | now.                               | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 | May I help you with something else? | 13
14 |                                    | 14
15 | +-----+           +-----+ | 15
16 | | Yes |           | No | | 16
17 | +-----+           +-----+ | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Screen Transition: See Figure 2-3.

Screen PN5512. Can't Do This Yet

```
1111111111222222222233333333334
1234567890123456789012345678901234567890

1  |-----| 1
2  |-----| 2
3  |-----| 3
4  |-----| 4
5  |-----| 5
6  |-----| 6
7  | I'm sorry. I can't do this for you | 7
8  | yet. | | 8
9  |-----| 9
10 |-----| 10
11 |-----| 11
12 |-----| 12
13 | May I help you with something else? | 13
14 |-----| 14
15 | +-----+ | 15
16 | | Yes | | | No | | 16
17 | +-----+ | 17
18 | | | | +-----+ | 18
19 | | | | | EXIT | | 19
20 | | | | +-----+ | 20
```

Screen Transition: See Figure 2-3.

Screen PN5513. Printer Down (Continue)

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 | I'm sorry. I won't be able to give | 7
8 | you a record when you are finished. | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 | Would you like to continue anyway? | 13
14 |                                    | 14
15 | +-----+          +-----+ | 15
16 | | Yes  |          | No  | | 16
17 | +-----+          +-----+ | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+
      +-----+
      | EXIT |
      +-----+
```

Screen Transition: See Figure 2-4.

Screen PN5514. Something Else

```

1111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 | May I help you with something else? | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15| +-----+           +-----+ | 15
16| | Yes   |         | No   | | 16
17| +-----+           +-----+ | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
    +-----+

```

Screen Transition: See Figure 2-10.

Screen PN5516. Record Ready Shortly

1111111111222222222233333333334																			
1234567890123456789012345678901234567890																			
1																			1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10	Your record will be ready shortly.																		10
11																			11
12																			12
13																			13
14																			14
15																			15
16																			16
17																			17
18																			18
19																			19
20																			20

Screen Transition: See Figure 2-5.

Screen PN5517. Thanks

```
1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1|                                     |1
2|                                     |2
3|                                     |3
4|                                     |4
5|                                     |5
6|                                     |6
7|                                     |7
8|                                     |8
9|                                     |9
10|      Thanks - It's always a      |10
11|      pleasure to serve you.      |11
12|                                   |12
13|                                   |13
14|                                   |14
15|                                   |15
16|                                   |16
17|                                   |17
18|                                   |18
19|                                   |19
20|                                   |20
+-----+
```

Screen Transition: See Figure 2-5.

Screen PN5518. Thanks, Take Record

```
1111111111222222222233333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |           Here is your record.       | 8
9 |                                     | 9
10 |          Thanks.                     | 10
11 |                                     | 11
12 |   It's always a pleasure to serve you.   | 12
13 |                                     | 13
14 |                                     | 14
15 |                                     | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+
```

Screen Transition: See Figure 2-6.

Screen PN5519. Can't Give Record Right Now

```
111111111122222222223333333334 .  
1234567890123456789012345678901234567890  
+-----+  
1 |                                     | 1  
2 |                                     | 2  
3 |                                     | 3  
4 |                                     | 4  
5 |                                     | 5  
6 |                                     | 6  
7 |                                     | 7  
8 |                                     | 8  
9 | I'm sorry. I can't give you a record | 9  
10 | right now, but this information will | 10  
11 | appear on your next statement.       | 11  
12 |                                     | 12  
13 |                                     | 13  
14 |                                     | 14  
15 |                                     | 15  
16 |                                     | 16  
17 |                                     | 17  
18 |                                     | 18  
19 |                                     | 19  
20 |                                     | 20  
+-----+
```

Screen Transition: See Figure 2-6.

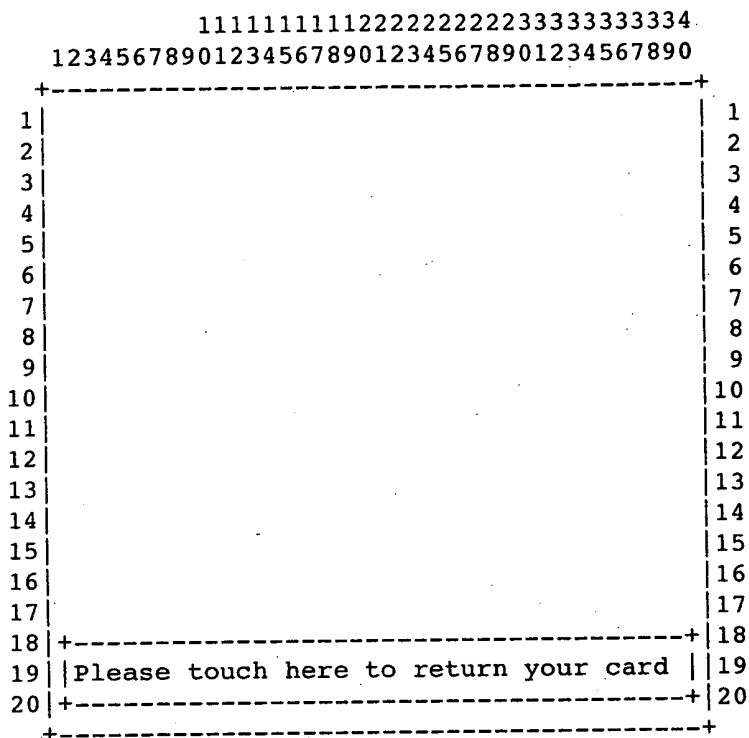
Overlay PN5521. Would You Like A Record

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 |                                    | 13
14 |                                    | 14
15 |                                    | 15
16 | Would you like a record?         | 16
17 |                                   | 17
18 | +-----+      +-----+      +-----+ | 18
19 | | Yes  |      | No  |      | EXIT | | 19
20 | +-----+      +-----+      +-----+ | 20
+-----+
  
```

Screen Transition: See Figure 2-7:

Overlay PN5522.Touch To Return Card



Screen Transition: See Figure 2-7.

Screen PN5523. Thanks - Take Card

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

Thanks - It's always a
pleasure to serve you.

Please take your card

Screen Transition: See Figure 2-5.

Screen PN5524. Thanks, Take Record, Take Card

```
1111111111222222222233333333334
123456789012345678901234567890
+-----+
1|                                     |1
2|                                     |2
3|                                     |3
4|                                     |4
5|                                     |5
6|                                     |6
7|                                     |7
8|      Here is your record.         |8
9|                                     |9
10|      Thanks.                     |10
11|                                     |11
12|  It's always a pleasure to serve you. |12
13|                                     |13
14|                                     |14
15|                                     |15
16|                                     |16
17|                                     |17
18+-----+18
19|      Please take your card       |19
20+-----+20
+-----+
```

Screen Transition: See Figure 2-6.

Screen PN5525. Please Take Your Card

111111111122222222223333333334		
1234567890123456789012345678901234567890		
1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9		9
10	Please take your card.	10
11		11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 2-7.

Overlay PN5526.Blank

1111111111222222222233333333334																			
1234567890123456789012345678901234567890																			
1																			1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12
13																			13
14																			14
15																			15
16																			16
17																			17
18																			18
19																			19
20																			20

Screen Transition: See Figure 2-7.

Comments: Timeout is 12 seconds.

Screen PN5527. Exactly Four Languages

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
1 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1 what_language_1
2 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2 what_language/what_language_c
3	3
4 -----	4
5 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	5 language_1/language_1c
6 -----	6
7 -----	7
8 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8 language_2/language_2c
9 -----	9
10 -----	10
11 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	11 language_3/language_3c
12 -----	12
13 -----	13
14 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	14 language_4/language_4c
15 -----	15
16	16
17	17
18	18
19	19
20	20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
what_language_1	O	X(37)	L	If the first language on the session list is English, leave blank.
what_language	O	X(37)	L	If the first language on the session list is English, display "Thanks. What language shall we speak?".
what_language_c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_1	O	X(37)	L	If the first language left to display is English, display "Touch here to speak English".
language_1c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

STR 45217-S

Standard Data Elements: Screen PN5527 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
language_2	O	X(37)	L	If the second language left to display is English, display "Touch here to speak English".
language_2c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_3	O	X(37)	L	If the third language left to display is English, display "Touch here to speak English".
language_3c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_4	O	X(37)	L	If the fourth language left to display is English, display "Touch here to speak English".
language_4c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1.

Comments: Each button contains two data elements. An X(37) variable (language_N) is displayed when the language to be displayed is a non-pictographic language. A C(17) variable (language_NC) is displayed when the language to be displayed is pictographic.

STR 45217-S
STR 48537-S

Screen PN5528. Exactly Three Languages

111111111122222222223333333334	
1234567890123456789012345678901234567890	
1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3	
4	
5	+-----+
6	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7	+-----+
8	
9	+-----+
10	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
11	+-----+
12	
13	+-----+
14	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
15	+-----+
16	
17	
18	
19	
20	

1 what_language_1
 2 what_language/what_language_c
 3
 4
 5
 6 language_1/language_1c
 7
 8
 9
 10 language_2/language_2c
 11
 12
 13
 14 language_3/language_3c
 15
 16
 17
 18
 19
 20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
what_language_1	O	X(37)	L	If the first language on the session list is English, leave blank.
what_language	O	X(37)	L	If the first language on the session list is English, display "Thanks. What language shall we speak?".
what_language_c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_1	O	X(37)	L	If the first language left to display is English, display "Touch here to speak English".
language_1c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

STR 45217-S

Standard Data Elements: Screen PN5528 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
language_2	O	X(37)	L	If the second language left to display is English, display "Touch here to speak English".
language_2c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_3	O	X(37)	L	If the third language left to display is English, display "Touch here to speak English".
language_3c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1.

Comments: Each button contains two data elements. An X(37) variable (language_N) is displayed when the language to be displayed is a non-pictographic language. A C(17) variable (language_NC) is displayed when the language to be displayed is pictographic.

STR 45217-S
STR 48537-S

Screen PN5529. Exactly Two Languages

111111111122222222223333333334	
1234567890123456789012345678901234567890	
1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3	
4	
5	
6	
7	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
8	
9	
10	
11	
12	
13	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
14	
15	
16	
17	
18	
19	
20	

1 what_language_1
 2 what_language/what_language_c
 3
 4
 5
 6
 7 language_1/language_1c
 8
 9
 10
 11
 12
 13 language_2/language_2c
 14
 15
 16
 17
 18
 19
 20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
what_language_1	O	X(37)	L	If the first language on the session list is English, leave blank.
what_language	O	X(37)	L	If the first language on the session list is English, display "Thanks. What language shall we speak?".
what_language_c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
language_1	O	X(37)	L	If the first language left to display is English, display "Touch here to speak English".
language_1c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

STR 45217-S

Standard Data Elements: Screen PN5529 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
language_2	O	X(37)	L	If the second language left to display is English, display "Touch here to speak English".
language_2c	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1.

Comments: Each button contains two data elements. An X(37) variable (language_N) is displayed when the language to be displayed is a non-pictographic language. A C(17) variable (language_NC) is displayed when the language to be displayed is pictographic.

STR 45217-S
STR 48537-S

Screen PN5530. Customer Service Phone Number

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | Please call your local Customer   | 3
4 | Service. XXXXXXXXXXXXXXXXXXXX     | 4 phone_txt1
5 | XXXXXXXXXXXXXXXXXXXXXXXXXXXX      | 5 phone_txt2/phone_txt3
6 |                                     | 6
7 |             XXXXXXXXXXXXXXXXXXXX  | 7 cs_name
8 |             XXXXXXXXXXXXXXXXXXXX  | 8 phone_number
9 |                                     | 9
10 |                                     | 10
11 |                                     | 11
12 |                                     | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+           +-----+    | 15
16 | | Yes |           | No |         | 16
17 | +-----+           +-----+    | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
phone_txt1	O	X(20)	L	If the phone number can be called collect, display: "You may call collect".
				If the phone number cannot be called collect, display: "You may call them at".
phone_txt2	O	X(24)	L	If the phone number can be called collect, display: "using this phone number:".
				If the phone number cannot be called collect, display: "this phone number:".
phone_txt3	O	X(1)	L	If the phone number can be called collect, leave blank.
				If the phone number cannot be called collect, leave blank.
cs_name	O	X(25)	L	Display the name of the customer service associated with this card prefix. If no name is defined, leave blank.

Standard Data Elements: Screen PN5530 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
phone_number	O	X(25)	V	Display the customer service phone number associated with this card prefix.

Screen Transition: See Figure 2-3.

Comments: A telephone number can be called collect only if the local configuration flag at the CAT (for whether collect calls are allowed out of the acquiring country) and the flag in the card prefix table entry from Message 4117 (for whether the phone number will accept collect calls) *both* indicate that collect calls are possible.

Screen PN5531. Can't Print Record - Off-Us

```
1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | I'm sorry.  I can't give you a record | 9
10| right now.                               |10
11|                                     |11
12|                                     |12
13|                                     |13
14|                                     |14
15|                                     |15
16|                                     |16
17|                                     |17
18|                                     |18
19|                                     |19
20|                                     |20
+-----+
```

Screen Transition: See Figure 2-6.

Screen PN5533. Card Expiration Month

```

1111111111222222222233333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 | In what month does your card expire? | 2
3 |                                     | 3
4 |                                     | 4
5 | +-----+ +-----+ +-----+ | 5
6 | | January | | February | | March | | 6
7 | +-----+ +-----+ +-----+ | 7
8 | +-----+ +-----+ +-----+ | 8
9 | | April | | May | | June | | 9
10 | +-----+ +-----+ +-----+ | 10
11 | +-----+ +-----+ +-----+ | 11
12 | | July | | August | | September | | 12
13 | +-----+ +-----+ +-----+ | 13
14 | +-----+ +-----+ +-----+ | 14
15 | | October | | November | | December | | 15
16 | +-----+ +-----+ +-----+ | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Screen Transition: See Figure 2-13.

Screen PN5534. Card Expiration Year

1111111111222222222233333333334
1234567890123456789012345678901234567890

1					1
2	Please tell me the year your card				2
3	expires. Then touch ENTER .				3
4	(Touch CLEAR to erase.)				4
5	+-----+				5
6					6 card_year
7	+-----+				7
8					8
9	1	2	3		9
10					10
11	+-----+			ENTER	11
12					12
13	4	5	6		13
14					14
15	+-----+				15
16					16
17	7	8	9	CLEAR	17
18	+-----+				18
19		0		EXIT	19
20	+-----+				20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
card_year	I	9(4)	L	Exactly four digits must be entered. As the number is entered, display the digits from left to right.

Screen Transition: See Figure 2-13.

Screen PN5535. Invalid Date

```

111111111122222222223333333334
123456789012345678901234567890
+-----+
1|                                     1|
2|                                     2|
3|                                     3|
4|                                     4|
5|                                     5|
6|                                     6|
7| I'm sorry. I don't understand that  7|
8| date.                               8|
9|                                     9|
10|                                    10|
11|                                    11|
12|                                    12|
13| Would you like to try again?       13|
14|                                    14|
15| +-----+           +-----+      15|
16| | Yes |           | No |           16|
17| +-----+           +-----+      17|
18|                                     18|
19|                                     19|
20|                                     20|
+-----+

```

Screen Transition: See Figure 2-13.

Screen PN5536. Debit Card Main Menu - 5 Buttons

```
1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | Which may I help you with in your | 1
2 | Citibank Account?                 | 2
3 |                                   | 3
4 | +-----+                         | 4
5 | |Checking or Current              | 5
6 | +-----+                         | 6
7 | +-----+                         | 7
8 | |Savings and Investments          | 8
9 | +-----+                         | 9
10| +-----+                         | 10
11| |Credit Cards                    | 11
12| +-----+                         | 12
13| +-----+                         | 13
14| |Loans and Other Credit           | 14
15| +-----+                         | 15
16| +-----+                         | 16
17| |Customer Service                 | 17
18| +-----+                         | 18
19|                                   | 19
20|                                   | 20
+-----+
| EXIT |
+-----+
```

Screen Transition: See Figure 2-2.

STR 44412-S

Screen PN5537. Debit Card Main Menu - 4 Buttons

```

11111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1|                                     |1
2| Which may I help you with in your |2
3| Citibank Account?                 |3
4| +-----+                         |4
5| |Checking or Current              |5
6| +-----+                         |6
7| +-----+                         |7
8| |Savings and Investments          |8
9| +-----+                         |9
10| +-----+                       |10
11| |Credit Cards                   |11
12| +-----+                       |12
13| +-----+                       |13
14| |Loans and Other Credit          |14
15| +-----+                       |15
16|                                     |16
17|                                     |17
18|                                     |18
19|                                     |19
20|                                     |20
+-----+

```

Screen Transition: See Figure 2-2.

STR 44412-S

2.6 Processes

This section shows the Processes defined for Product Select.

PRC PN5550. Build Language List

1. If the prefix for this card was *not* in the ICC Language Table at the CAT, use the list of languages that has been designated for use by Off-Us cards at this CAT as the entire session list. Do *not* append any other languages to this list.
2. If the prefix for this card *was* in the ICC Language Table at the CAT:
 - a. Three lists of languages affect language selection:
 - i. The ICC Language Table list (the list of languages specified for this card prefix)
 - ii. The CAT list (the list of ICC languages that are available on the CAT)
 - iii. The session list (the list of languages that are actually presented for selection to the customer)
 - b. Look at the ICC Language Table entry for this card prefix list. The first language in the ICC Language Table entry is the preferred language. If the preferred language is available on the CAT list, make this language the first language on the session list. If the preferred language is *not* available on the CAT list, make English the first language on the session list.
 - c. Add any languages that both appear in the ICC Language Table entry and on the CAT list to the session list. Do *not* add any languages to the session list that have the same Base_Lang_Cde. Languages should be added in the order in which they occur in the ICC Language Table entry.
 - d. Add any languages that appear on the CAT list that have not yet been added to the session list. Do not add any languages to the session list that have the same Base_Lang_Cde as a language already on the session list. Languages should be added in the order in which they occur in the CAT list.

Screen Transition: See Figure 2-1.

PRC PN5551. Menu Decision

Summary: This process sets the variables that are to appear as choices on the Main Menu. For Debit Cards, these menus allow the customer to choose the function for the CA Category that he/she has picked. For Standalone Credit Cards, the customer can choose the function that they want for their card account. The variables are set based on what transactions are supported for:

1. The card being used
2. The Customer Activated Terminal type (for example, CAT vs. CASST)
3. The status of the cash dispenser
4. The status of the printer
5. Whether or not a printed record is queued (Off-Us cards only)
6. Whether or not a Customer Service phone number is available for this BIN.

See Table 2-1, Table 2-2 and Table 2-3 for the appropriate settings for these variables. The choices on the menu should appear in the order shown and with the text specified in Table 2-3.

Screen Transition: See Figure 2-2 and Figure 2-12.

PRC PN5552. Exit Decision

This process defines the standard exit processing to be used when a customer either presses the **EXIT** key or answers "No" to the "May I help you with something else?" question.

Screen Transition: See Figure 2-5.

PRC PN5553. Overlay Decision

Summary: This process has been defined to handle errors that terminate the session. Basically, when an error occurs that terminates a session, three exit states are possible:

1. A record is queued and must be offered to the customer.
2. No record is queued and the CAT has a dip reader.
3. No record is queued and the CAT has a transport reader.

To avoid having three versions of every error screen that terminates the session, this process was defined to overlay appropriate choices.

This process either: overlays the "Would you like a record?" question (for Case 1), overlays a blank screen with only a timeout defined (for Case 2), or overlays a "Touch here to return your card" button (for Case 3).

Screen Transition: See Figure 2-7.

PRC PN5554. Update ICC Language Table

The ICC Language Table at the CAT is used to select appropriate language choices to display at the CAT, for a card with a given card prefix. As changes are made to the BIN table at Citishare and distributed to the FEP, the responses to the CPT Entry Request message for a given card prefix may not match the values in that ICC Language Table entry at the CAT. In this case, the ICC Language Table at the CAT may need to be updated with the newer data from the response.

Whether or not to update the entry, and how to update the entry, is based on two pieces of information, whether or not the ICC Language Table entry matched at the CAT was an ICC entry (versus a catchall), and whether or not the response to the CPT Entry Request message from the FEP indicates that the card is an ICC card (versus Generic Off-Us, Local Off-Us, unsupported, and so on).

The following table shows the appropriate action to take in each possible case:

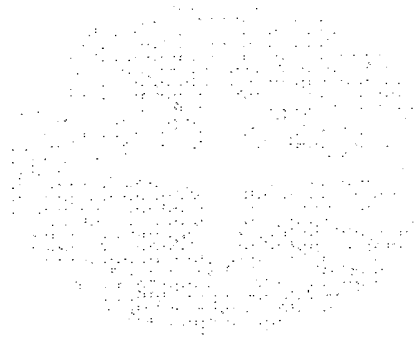
Card Class in ICC Language Table	Card Class from SFS	Action
ICC	ICC	Update entry matched in ICC Language Table with any new values
ICC	non-ICC	Delete entry matched in ICC Language Table
non-ICC	ICC	Add new entry to ICC Language Table with data from response

Screen Transition: See Figure 2-8.

PRC PN5555. Track 2 For PC CAT Cardless Access

Element		Description
STX	Start Sentinel	BCD 11
PAN	Primary Account Number	Up to 19 digits
FS	Separator	BCD 13
ED	Expiration Date	YYMM
ETX	End Sentinel	BCD 15

PCR 44383-S



Chapter 3

Withdrawal

The Withdrawal application dispenses cash to the customer at his/her request for specific account types. This application may dispense up to four different currencies. The dispense currencies are a subset of those in Table 3-1.

When running on PC CAT, the Withdrawal application does not dispense cash. Instead, after obtaining authorization, it prints a withdrawal slip.

This chapter covers the following:

- Supported ESP Messages (Section 3.1)
- Processing Overview (Section 3.2)
- Flowcharts (Section 3.3)
- Special Tables (Section 3.4)
- Screens (Section 3.5)
- Processes (Section 3.6)

3.1 Supported ESP Messages

The Withdrawal application uses the following ESP messages:

Message ID	Message Description
4201	Withdrawal Authorization Request
4202	Withdrawal Authorization Reversal Request
4205	Report a Dispense Failure
4604/X11FC*	Profile with Balance/Citicard Summary

NOTE

The Profile message is being sent in Product Select, and therefore does not appear in the flowcharts of this chapter. The responses, however, are handled throughout this chapter; and, therefore, the message is being included above.

The SFS Function Codes for these messages are determined from the Message ID and the SFS Function Code offset from Message 4117. For ICC, they are 4241, 4242, and 4245. For Off-Us, they are 4261, 4262, and 4265.

3.2 Processing Overview

The following provides the Withdrawal processing overview:

- Determine if the customer is using an ICC or Off-Us card. If it is an ICC card, allow the customer to choose the Product Category from which the money will be taken.
- For ICC cards, get the customer's profile.
Determine the accounts from which the customer can get cash based on the card BIN. If there is only one possible account type, then automatically set this account type as the withdrawal source. Otherwise, display a menu asking the customer to select one using the Account Resolver screens defined in Common Screens and Procedures.
- If more than one type of cash currency is dispensed by this CAT, display a menu asking the customer to select the type of cash he/she would like.
- Determine the appropriate withdrawal amounts to display on the amount selection screen. Amount selections are based on denominations available and on the currency code of the dispense currency. For PC CAT, display a keyboard with the currency code of the acquirer business' currency.
- Get the withdrawal amount.
- If not the first transaction of the session, reenter PIN.
- Send Withdrawal Authorization Request, and wait for response.
- If account currency and dispense currency are different, display equivalent transaction amounts (if available) and ask customer if he/she wants to continue.
- Count bills and dispense. For PC CAT, print a withdrawal slip. Handle any errors that occur accordingly.
- If cash is taken, queue a WN Transaction Record. Otherwise, recapture cash and send "Report a Dispenser Failure" message.
- Display an appropriate resulting balance screen based on the data returned in the authorization response.

3.3 Flowcharts

This section shows the flowcharts for the Withdrawal application.

Unless otherwise specified, pressing the **EXIT** key on any screen activates Process PN5552 in the Product Select application.

Similarly, a timeout transitions to the standard "Timeout" routine in Common Screens and Procedures.

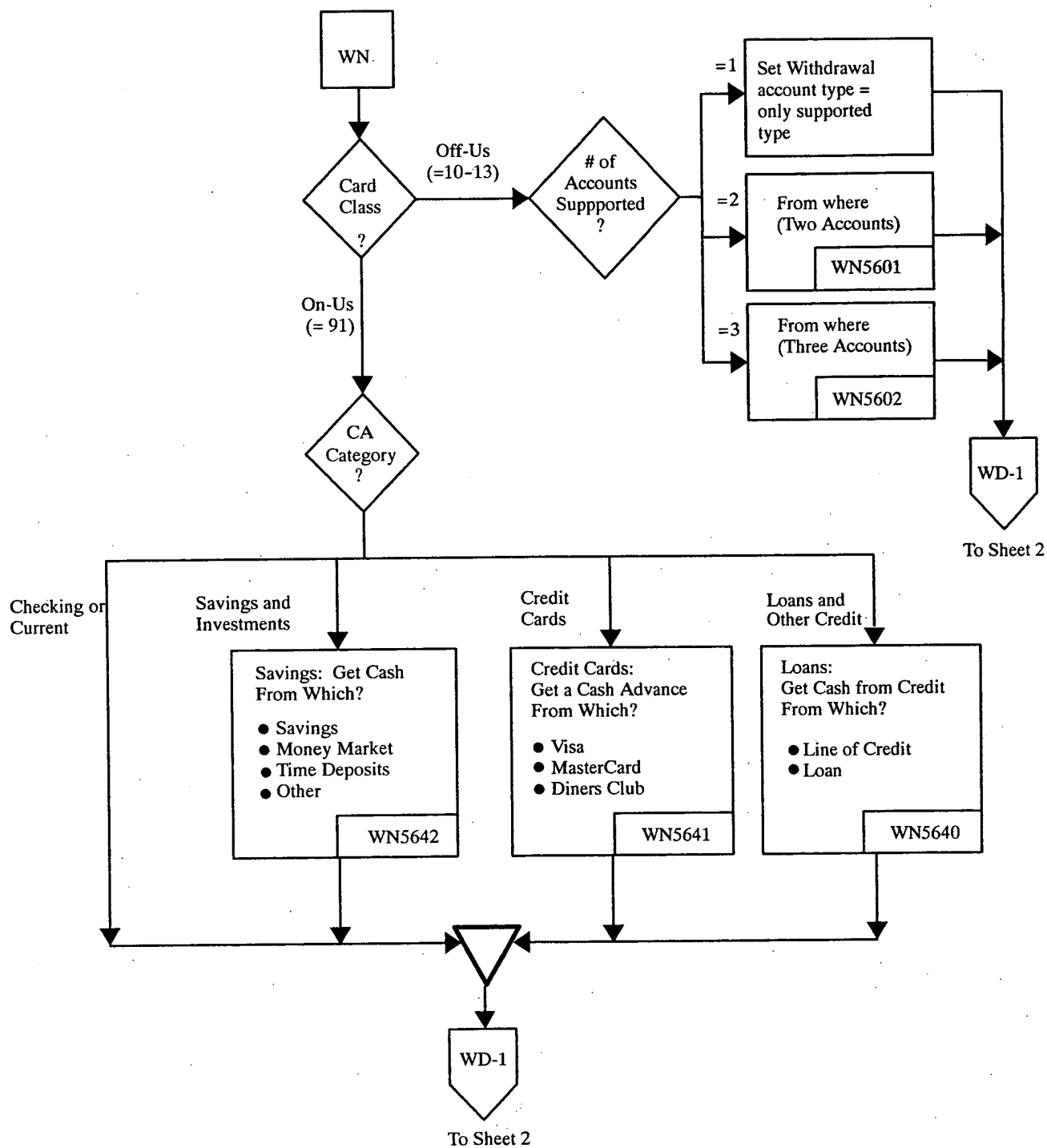


Figure 3-1. Category Menus to Choose Source Account
(Sheet 1 of 8)

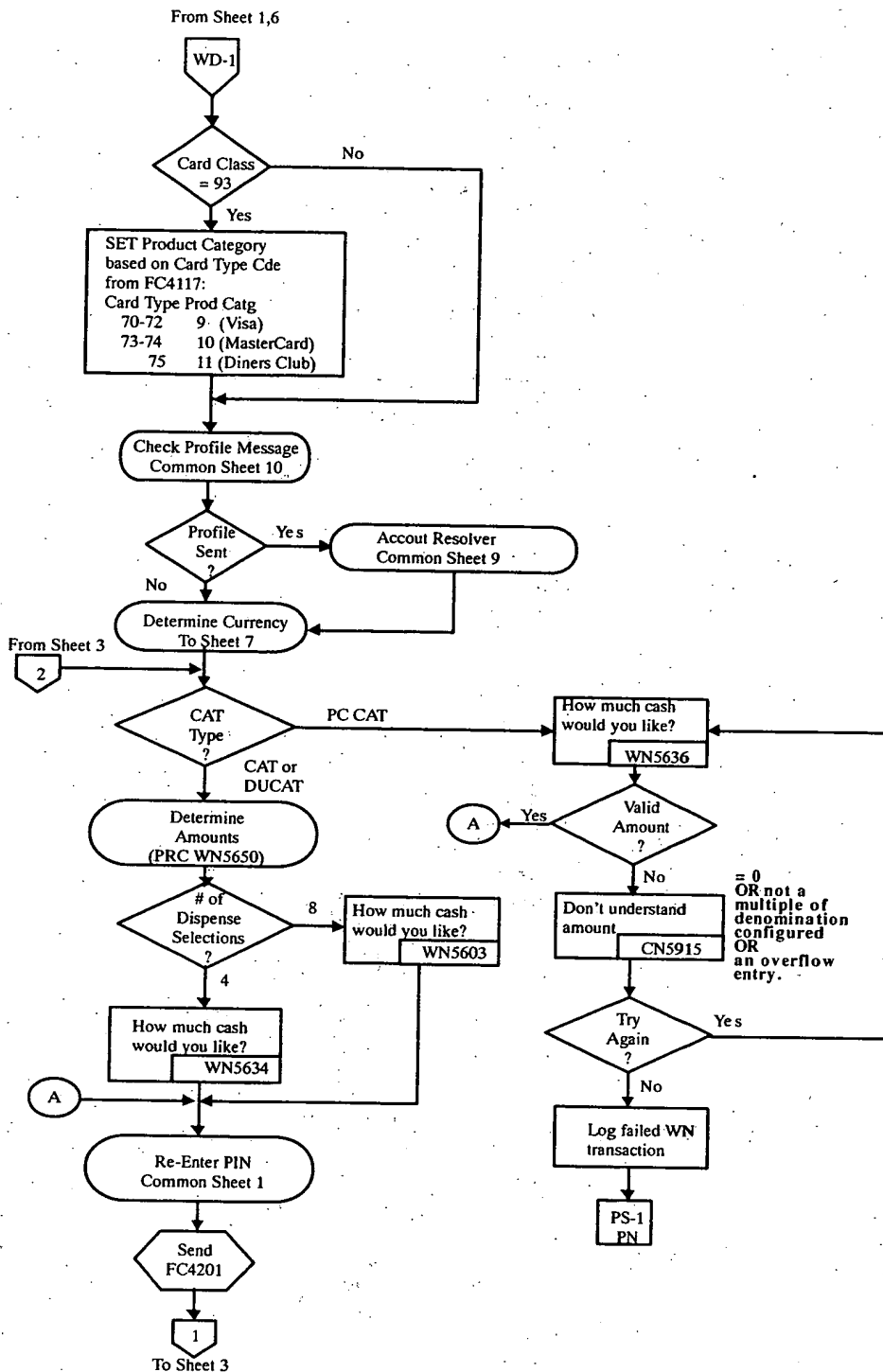


Figure 3-2. Get Cash (Sheet 2 of 8)

STR 44413-S
STR 46744-S

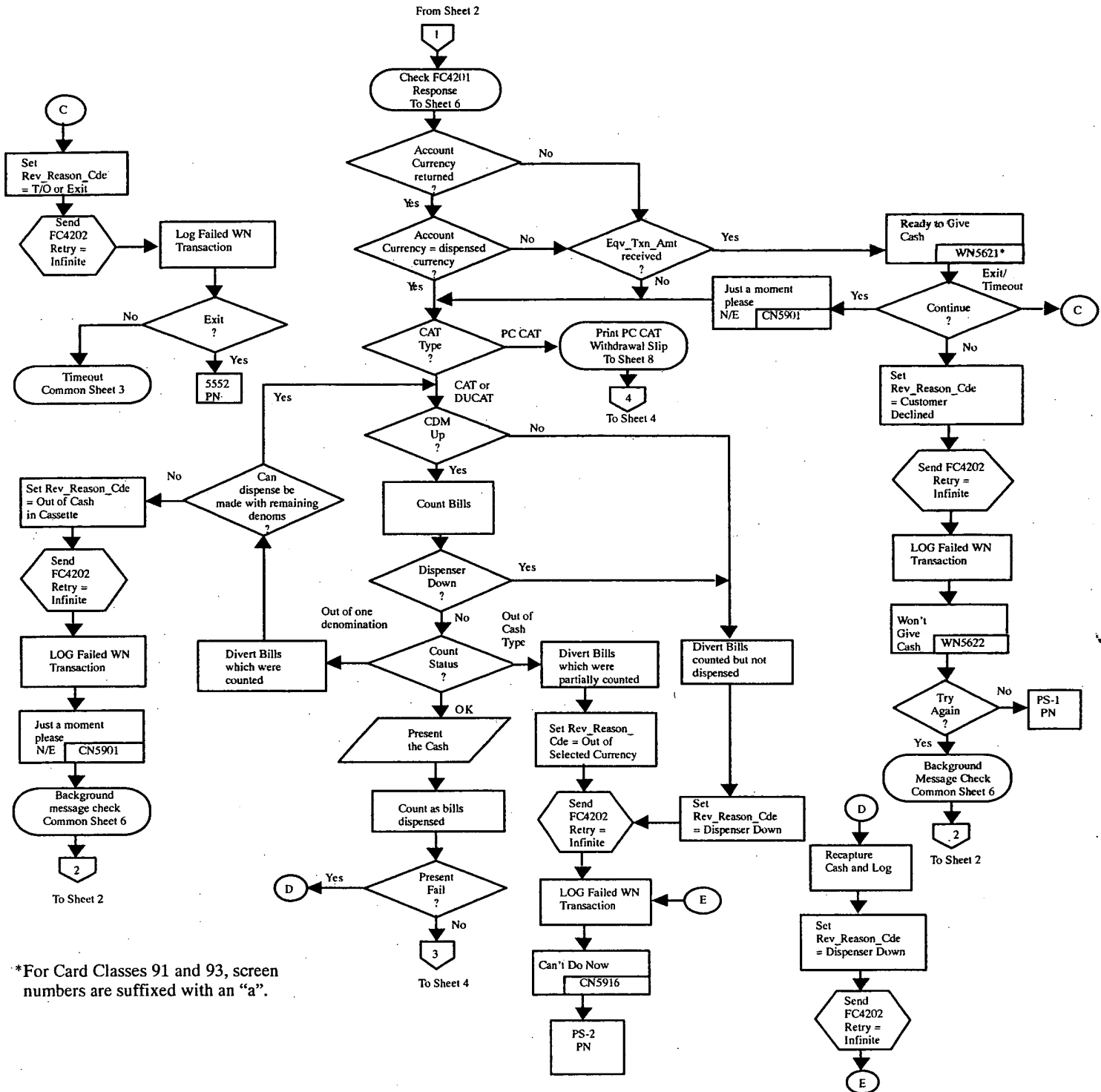
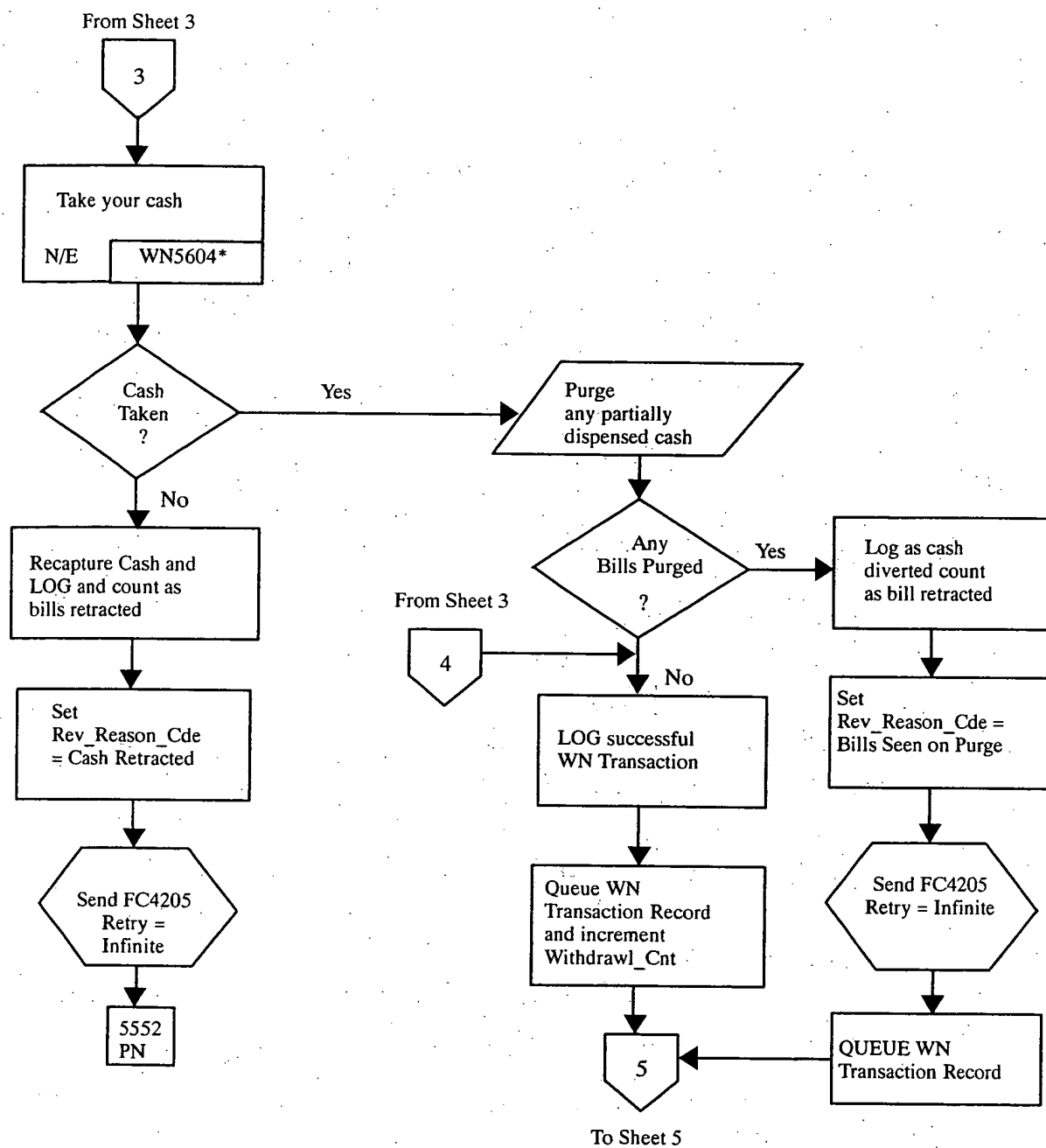


Figure 3-3. Confirm, Count, and Dispense (Sheet 3 of 8)

STR 44413-S
STR 45089-S.



* For Card Classes 91 and 93, screen numbers are suffixed with an "a".

Figure 3-4. Present Cash (Sheet 4 of 8)

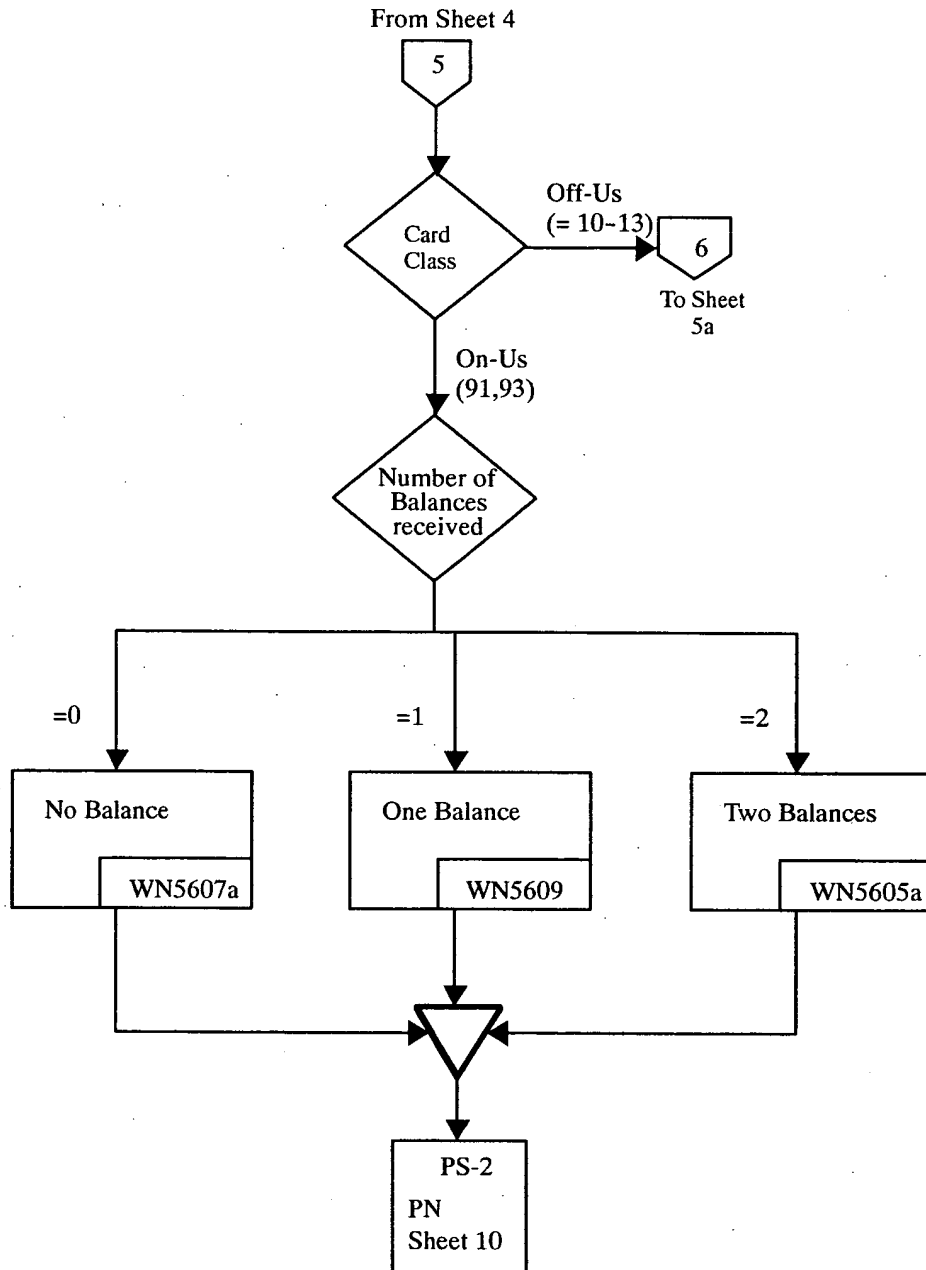


Figure 3-5. Display Resulting Balances (Sheet 5 of 8)

Withdrawal

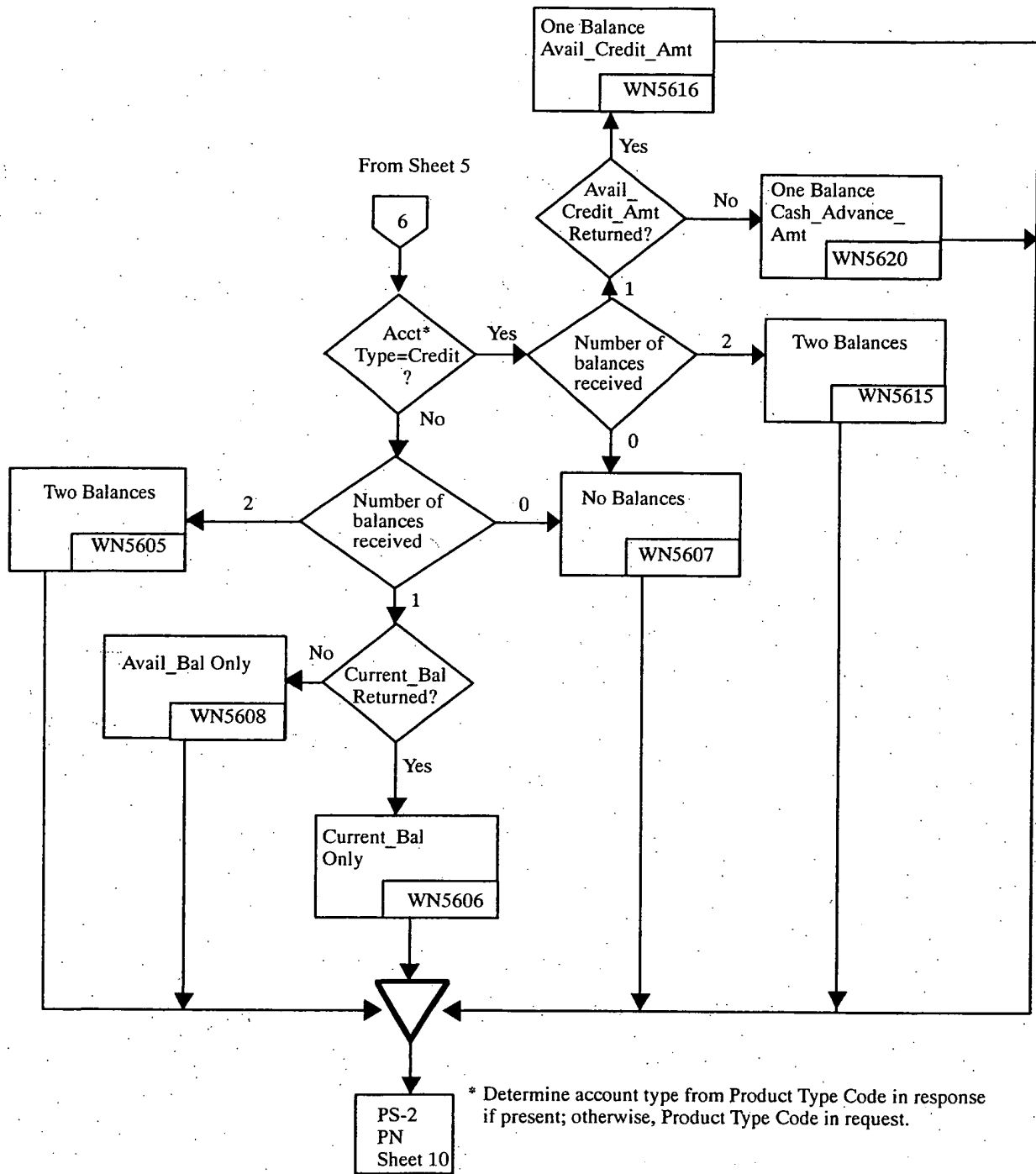


Figure 3-5. ICC Withdrawal Display Resulting Balance(s) (Sheet 5a of 8)

STR 45089-S

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(SEE NOTICE ON TITLE PAGE)

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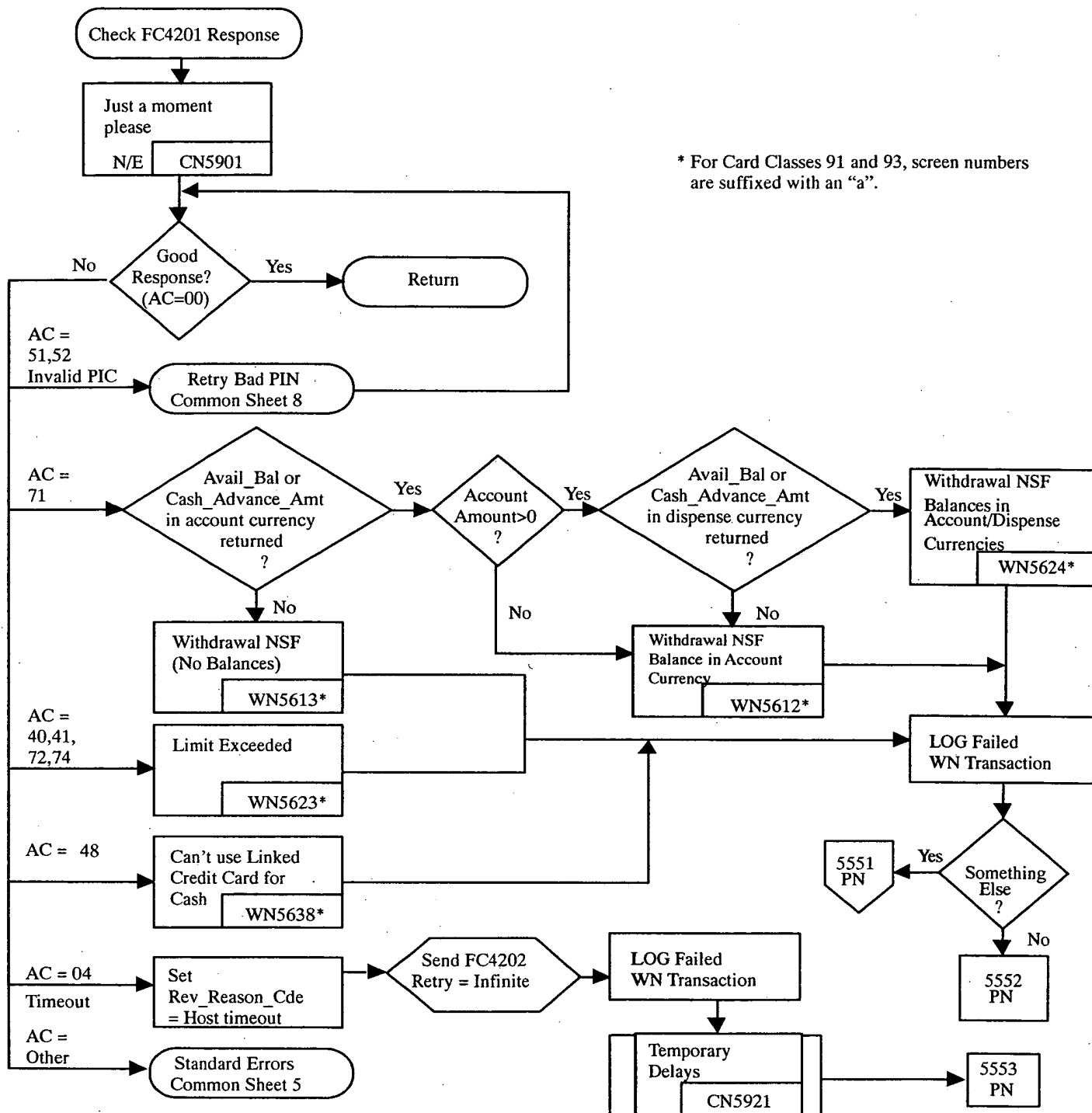


Figure 3-6. Check FC4201 Response (Sheet 6 of 8)

STR 44414-S

STR 45089-S

SCR 43743-S

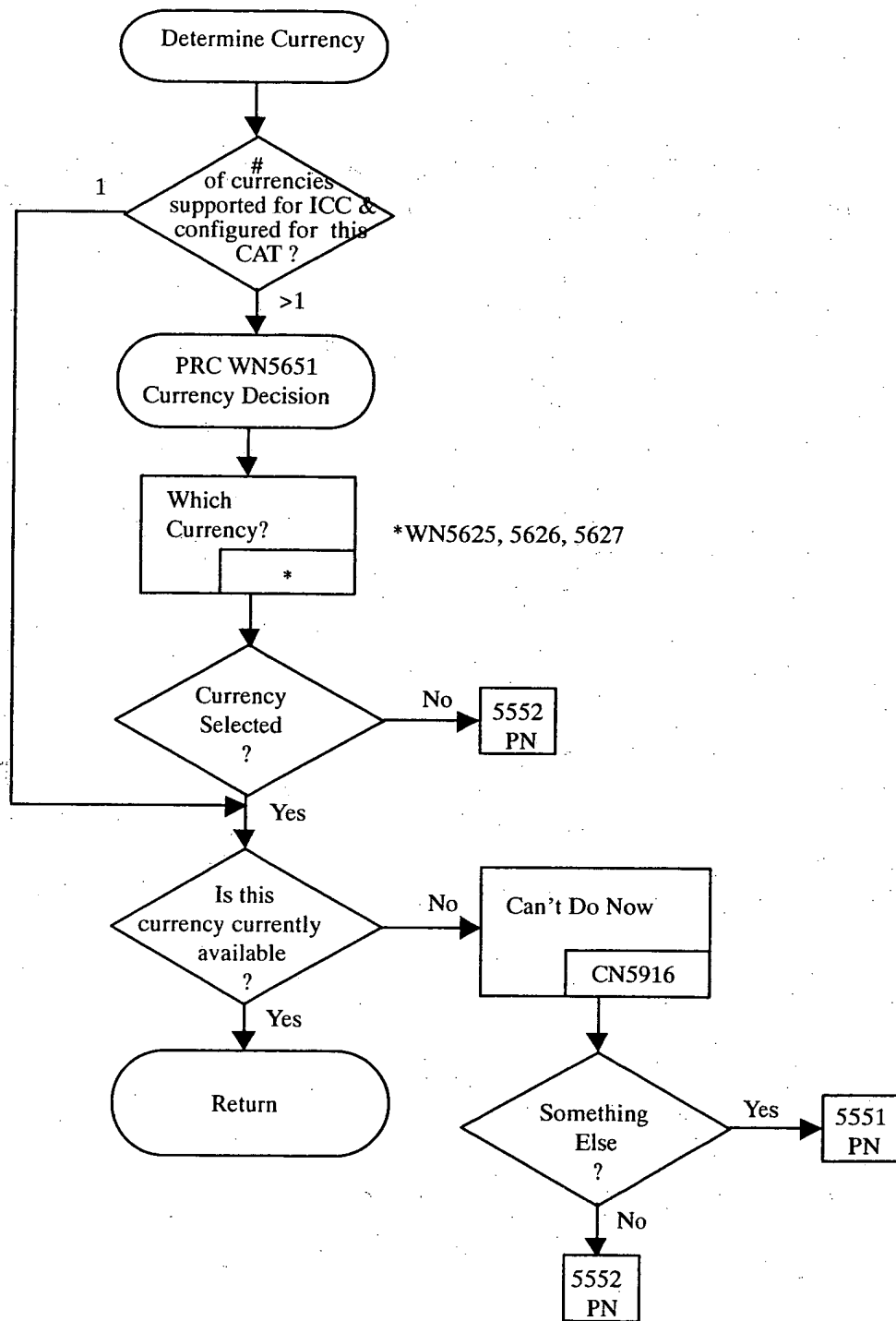


Figure 3-7. Determine Currency (Sheet 7 of 8)

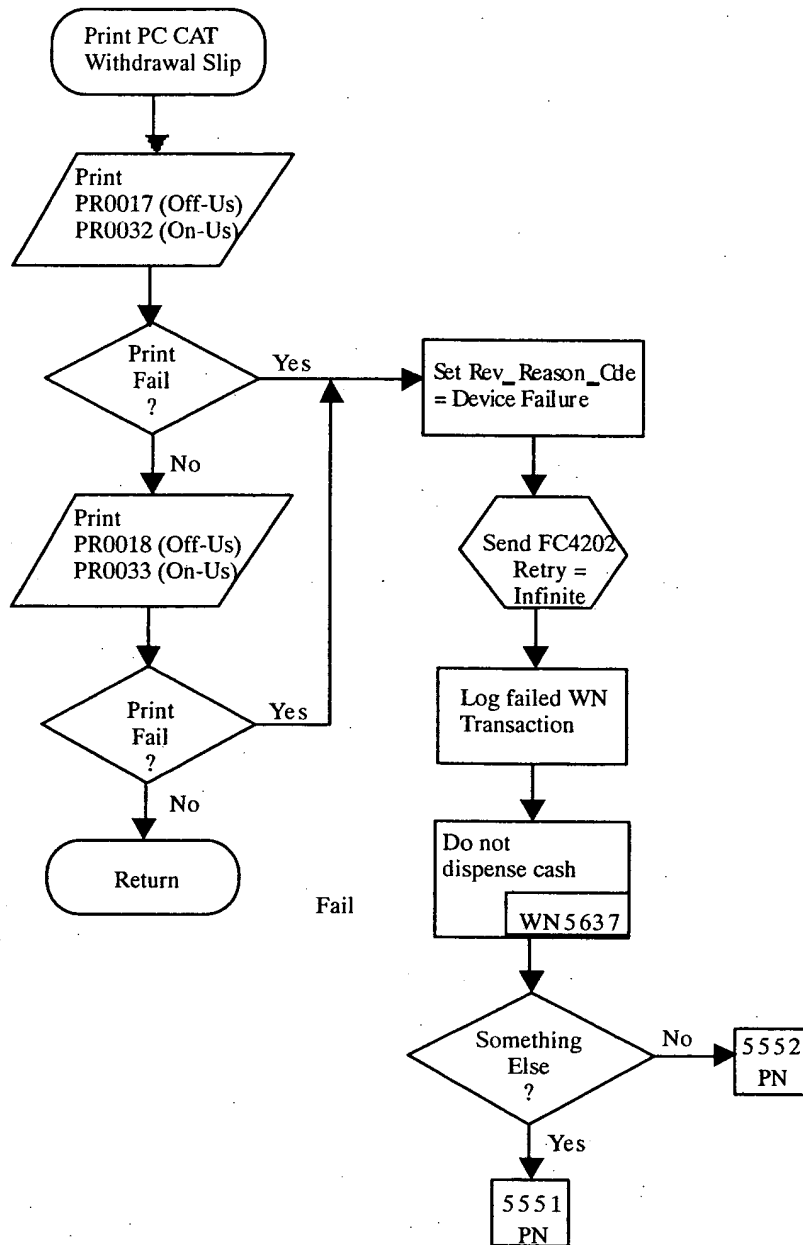


Figure 3-8. Print PC CAT Withdrawal Slip (Sheet 8 of 8)

STR 45089-S

3.4 Special Tables

Table 3-1 is the Cash Selection Table used by the Withdrawal application when more than one currency is dispensed by the same CAT.



Table 3-1. Cash Selection

Currency		Button Text Centered	Button Text Top Line	Button Text Bottom Line
USD				
	Available	"U.S. Dollars"	<blank>	<blank>
	Not available now	<blank>	"U.S. Dollars"	"I can't do this right now."
SGD				
	Available	"Singapore Dollars"	<blank>	<blank>
	Not available now	<blank>	"Singapore Dollars"	"I can't do this right now."
DEM				
	Available	"Deutsche Marks"	<blank>	<blank>
	Not available now	<blank>	"Deutsche Marks"	"I can't do this right now."
CLP				
	Available	"Chilean Pesos"	<blank>	<blank>
	Not available now	<blank>	"Chilean Pesos"	"I can't do this right now."
TWD				
	Available	"New Taiwan Dollars"	<blank>	<blank>
	Not available now	<blank>	"New Taiwan Dollars"	"I can't do this right now."
GRD				
	Available	"Greek Drachmas"	<blank>	<blank>
	Not available now	<blank>	"Greek Drachmas"	"I can't do this right now."
ITL				
	Available	"Italian Lira"	<blank>	<blank>
	Not available now	<blank>	"Italian Lira"	"I can't do this right now."
KRW				
	Available	"Korean Won"	<blank>	<blank>
	Not available now	<blank>	"Korean Won"	"I can't do this right now."
JPY				
	Available	"Japanese Yen"	<blank>	<blank>
	Not available now	<blank>	"Japanese Yen"	"I can't do this right now."

Table 3-1. Cash Selection (Cont)

Currency		Button Text Centered	Button Text Top Line	Button Text Bottom Line
AED				
	Available	"Emirian Dirham"	<blank>	<blank>
	Not available now	<blank>	"Emirian Dirham"	"I can't do this right now."
CHF				
	Available	"Swiss Francs"	<blank>	<blank>
	Not available now	<blank>	"Swiss Francs"	"I can't do this right now."
MYR				
	Available	"Malaysian Ringgit"	<blank>	<blank>
	Not available now	<blank>	"Malaysian Ringgit"	"I can't do this right now."
NZD				
	Available	"New Zealand Dollars"	<blank>	<blank>
	Not available now	<blank>	"New Zealand Dollars"	"I can't do this right now."
AUD				
	Available	"Australian Dollars"	<blank>	<blank>
	Not available now	<blank>	"Australian Dollars"	"I can't do this right now."
CAD				
	Available	"Canadian Dollars"	<blank>	<blank>
	Not available now	<blank>	"Canadian Dollars"	"I can't do this right now."
GBP				
	Available	"British Pounds"	<blank>	<blank>
	Not available now	<blank>	"British Pounds"	"I can't do this right now."
BEF				
	Available	"Belgian Francs"	<blank>	<blank>
	Not available now	<blank>	"Belgian Francs"	"I can't do this right now."
ATS				
	Available	"Austrian Schillings"	<blank>	<blank>
	Not available now	<blank>	"Austrian Schillings"	"I can't do this right now."

Table 3-1. Cash Selection (Cont)

Currency		Button Text Centered	Button Text Top Line	Button Text Bottom Line
DKK				
	Available	"Danish Kroner"	<blank>	<blank>
	Not available now	<blank>	"Danish Kroner"	"I can't do this right now."
FIM				
	Available	"Finnish Markkas"	<blank>	<blank>
	Not available now	<blank>	"Finnish Markkas"	"I can't do this right now."
HKD				
	Available	"Hong Kong Dollars"	<blank>	<blank>
	Not available now	<blank>	"Hong Kong Dollars"	"I can't do this right now."
IEP				
	Available	"Irish Pounds"	<blank>	<blank>
	Not available now	<blank>	"Irish Pounds"	"I can't do this right now."
LUF				
	Available	"Luxembourg Francs"	<blank>	<blank>
	Not available now	<blank>	"Luxembourg Francs"	"I can't do this right now."
NLG				
	Available	"Dutch Guilders"	<blank>	<blank>
	Not available now	<blank>	"Dutch Guilders"	"I can't do this right now."
NOK				
	Available	"Norwegian Kroner"	<blank>	<blank>
	Not available now	<blank>	"Norwegian Kroner"	"I can't do this right now."
PTE				
	Available	"Portuguese Escudos"	<blank>	<blank>
	Not available now	<blank>	"Portuguese Escudos"	"I can't do this right now."
ESP				
	Available	"Spanish Pesetas"	<blank>	<blank>
	Not available now	<blank>	"Spanish Pesetas"	"I can't do this right now."

Table 3-1. Cash Selection (Cont)

Currency		Button Text Centered	Button Text Top Line	Button Text Bottom Line
SEK				
	Available	"Swedish Kronas"	<blank>	<blank>
	Not available now	<blank>	"Swedish Kronas"	"I can't do this right now."
FRF				
	Available	"French Francs"	<blank>	<blank>
	Not available now	<blank>	"French Francs"	"I can't do this right now."
BSD				
	Available	"Bahamian Dollars"	<blank>	<blank>
	Not available now	<blank>	"Bahamian Dollars"	"I can't do this right now."
ARA				
	Available	"Argentinian Pesos"	<blank>	<blank>
	Not available now	<blank>	"Argentinian Pesos"	"I can't do this right now."
INR				
	Available	"Indian Rupee"	<blank>	<blank>
	Not available now	<blank>	"Indian Rupee"	"I can't do this right now."
IDR				
	Available	"Rupiah"	<blank>	<blank>
	Not available now	<blank>	"Rupiah"	"I can't do this right now."
MXP				
	Available	"Mexican Pesos"	<blank>	<blank>
	Not available now	<blank>	"Mexican Pesos"	"I can't do this right now."
PHP				
	Available	"Philippine Pesos"	<blank>	<blank>
	Not available now	<blank>	"Philippine Pesos"	"I can't do this right now."
SAR				
	Available	"Saudi Riyal"	<blank>	<blank>
	Not available now	<blank>	"Saudi Riyal"	"I can't do this right now."

Table 3-1. Cash Selection (Cont)

Currency		Button Text Centered	Button Text Top Line	Button Text Bottom Line
THB				
	Available	"Thai Baht"	<blank>	<blank>
	Not available now	<blank>	"Thai Baht"	"I can't do this right now."
PAB				
	Available	"Panamanian Balboas"	<blank>	<blank>
	Not available now	<blank>	"Panamanian Balboas"	"I can't do this right now."
CYP				
	Available	"Cyprus Pounds"	<blank>	<blank>
	Not available now	<blank>	"Cyprus Pounds"	"I can't do this right now."
VEB				
	Available	"Bolivares"	<blank>	<blank>
	Not available now	<blank>	"Bolivares"	"I can't do this right now."
MXN				
	Available	"Mexican New Pesos"	<blank>	<blank>
	Not available now	<blank>	"Mexican New Pesos"	"I can't do this right now."
COP				
	Available	"Colombian Pesos"	<blank>	<blank>
	Not available now	<blank>	"Colombian Pesos"	"I can't do this right now."
BHD				
	Available	"Bahraini Dinar"	<blank>	<blank>
	Not available now	<blank>	"Bahraini Dinar"	"I can't do this right now."
BND				
	Available	"Bruneian Dollars"	<blank>	<blank>
	Not available now	<blank>	"Bruneian Dollars"	"I can't do this right now."
BUK				
	Available	"Myanmar Kyat"	<blank>	<blank>
	Not available now	<blank>	"Myanmar Kyat"	"I can't do this right now."

Table 3-1. Cash Selection (Cont)

Currency		Button Text Centered	Button Text Top Line	Button Text Bottom Line
HUF				
	Available	"Hungarian Forint"	<blank>	<blank>
	Not available now	<blank>	"Hungarian Forint"	"I can't do this right now."
CNY				
	Available	"Chinese Renminbi"	<blank>	<blank>
	Not available now	<blank>	"Chinese Renminbi"	"I can't do this right now."
ARP				
	Available	"Argentinian Pesos"	<blank>	<blank>
	Not available now	<blank>	"Argentinian Pesos"	"I can't do this right now."
ARS				
	Available	"Argentinian Pesos"	<blank>	<blank>
	Not available now	<blank>	"Argentinian Pesos"	"I can't do this right now."
BRL				
	Available	"Brazilian Reals"	<blank>	<blank>
	Not available now	<blank>	"Brazilian Reals"	"I can't do this right now."
CZK				
	Available	"Czech Korunas"	<blank>	<blank>
	Not available now	<blank>	"Czech Korunas"	"I can't do this right now."
OMR				
	Available	"Omani Rials"	<blank>	<blank>
	Not available now	<blank>	"Omani Rials"	"I can't do this right now."
PKR				
	Available	"Pakistan Rupees"	<blank>	<blank>
	Not available now	<blank>	"Pakistan Rupees"	"I can't do this right now."
PLZ				
	Available	"Polish Zlotys"	<blank>	<blank>
	Not available now	<blank>	"Polish Zlotys"	"I can't do this right now."

Table 3-1. Cash Selection (Cont)

Currency		Button Text Centered	Button Text Top Line	Button Text Bottom Line
BRC				
	Available	"Brazilian Reals"	<blank>	<blank>
	Not available now	<blank>	"Brazilian Reals"	"I can't do this right now."

3.5 Screens

This section shows the screens and standard data elements for the Withdrawal application.

Screen WN5601. From Where (Two Accounts)

```

      1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 | Where shall I get your cash?       | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 | +-----+                         | 6
7 | |XXXXXXXXXXXXXXXXXXXXX|          | 7 acct_desc1
8 | +-----+                         | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12| +-----+                         | 12
13| |XXXXXXXXXXXXXXXXXXXXX|          | 13 acct_desc1
14| +-----+                         | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc1 (1-2)	O	X(18)	L	Display one of the following, based on the Product Type Code of the withdrawal account supported: 001 - "From Checking" 004 - "From Savings" 014 - "Borrow from Credit"

Screen Transition: See Figure 3-1.

Comments: Display accounts in the following order: Checking, Savings, Credit.

The list of appropriate Product Type Codes comes from the Transaction Support Specification element of the response to Message 4117 for the withdrawal transaction.

Screen WN5602. From Where (Three Accounts)

```
111111111122222222223333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 | Where shall I get your cash?      | 2
3 |                                     | 3
4 |                                     | 4
5 | +-----+                         | 5
6 | From Checking                     | 6
7 | +-----+                         | 7
8 |                                     | 8
9 | +-----+                         | 9
10 | From Savings                     | 10
11 | +-----+                         | 11
12 |                                     | 12
13 | +-----+                         | 13
14 | Borrow from Credit               | 14
15 | +-----+                         | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+
    +-----+
    | EXIT |
    +-----+
```

Screen Transition: See Figure 3-1.

Comments: The list of appropriate Product Type Codes comes from the Transaction Support Specification element of the response to Message 4117 for the withdrawal transaction.

Screen WN5603. How Much Cash Would You Like

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx| 1 See below
2 | How much cash would you like?                          | 2
3 |                                                         | 3
4 | +-----+ +-----+ | 4
5 | |xxxxxxxxxxxxxxxxxx| |xxxxxxxxxxxxxxxxxx| 5 amt1/amt2
6 | +-----+ +-----+ | 6
7 | +-----+ +-----+ | 7
8 | |xxxxxxxxxxxxxxxxxx| |xxxxxxxxxxxxxxxxxx| 8 amt3/amt4
9 | +-----+ +-----+ | 9
10 | +-----+ +-----+ | 10
11 | |xxxxxxxxxxxxxxxxxx| |xxxxxxxxxxxxxxxxxx| 11 amt5/amt6
12 | +-----+ +-----+ | 12
13 | +-----+ +-----+ | 13
14 | |xxxxxxxxxxxxxxxxxx| |xxxxxxxxxxxxxxxxxx| 14 amt7/amt8
15 | +-----+ +-----+ | 15
16 |                                                         | 16
17 |                                                         | 17
18 |                                                         | 18
19 |                                                         | 19
20 |                                                         | 20
+-----+

```

Variables: Line 1: alt_txt1/alt_amt1/alt_txt2 OR
alt_txt3/alt_amt2/alt_txt4/alt_amt3/alt_txt5

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
alt_txt1	O	X(12)	V	Display one of the following: - "I only have " - "I'm out of " - blanks.
alt_amt1	O	X(15) /W	V	See Comments.
alt_txt2	O	X(7)	V	Display "bills." or leave blank.
alt_txt3	O	X(7)	V	Display "I have " or leave blank.
alt_amt2	O	X(15) /W	V	See Comments.
alt_txt4	O	X(5)	V	Display " and " or leave blank.

STR 46565-S

Standard Data Elements: Screen WN5603 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
alt_amt3	O	X(15) /W	V	See Comments.
alt_txt5	O	X(7)	V	Display "bills." or leave blank.
amtn (n=1-8)	O	X(15)	C	Display the amounts (and associated currency descriptors of the amounts) available, which were set in Process WN5650.

Screen Transition: See Figure 3-2.

Comments: If the CAT has all bill denominations for the dispense currency and type, leave blank.

Otherwise, display one of the following based on the number of different denominations normally available, and the current cassette status.

# Denoms Normally Available	# Denoms Currently Available	"alt_txt" to Display
4 denoms	3 denoms	"I'm out of X(15) bills." where X(15) is the currency descriptor and denomination of the bill that has run out.
4 denoms	2 denoms	"I have X(15) and X(15) bills." where X(15) and X(15) are the currency descriptors and denominations of the remaining bills. Note: For some languages, it is possible that this phrase would exceed 51 characters. If this occurs, the whole phrase should be left blank.
4 denoms	1 denom	"I only have X(15) bills." where X(15) is the currency descriptor and denomination of the remaining bill.
3 denoms	2 denoms	"I'm out of X(15) bills." (See 4/3 case above).
3 denoms	1 denom	"I only have X(15) bills." (See 4/1 case above).
2 denoms	1 denom	"I only have X(15) bills." (See 4/1 case above).

The way the variables have been defined for this screen, display either alt_txt1, alt_amt, and alt_txt2 or alt_txt3, alt_amt2, alt_txt4, and alt_amt3, alt_txt5 depending upon the bills available.

Messages to/from ESPs: If PIN reentry is not required because this is the first transaction of the session, send FC4201.

STR 46565-S

Screen WN5604. Take Your Cash - Off-Us

```

111111111122222222223333333334
123456789012345678901234567890
+-----+
1 | I've just given you XXXXXXXXXXXXXXXX | 1
2 | from XXXXXXXX. | 2 withd_amt
3 | | 3 offus_acct_desc2
4 | | 4
5 | Your cash is in the opening XXXXX. | 5 slot_dir
6 | Please take it. | 6
7 | | 7
8 | | 8
9 | | 9
10 | | 10
11 | | 11
12 | | 12
13 | | 13
14 | | 14
15 | | 15
16 | | 16
17 | | 17
18 | | 18
19 | | 19
20 | | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
withd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
offus_acct_desc2	O	X(8)	V	Display one of the following: 001 - "Checking" 004 - "Savings" 014 - "Credit" based on the optional Product Type Code element returned in the response to FC4201, if present, or otherwise based on the Product Type Code in the request.

STR 45089-S

STR 48212-S

Standard Data Elements: Screen WN5604 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
-----------	-----	--------	---------	----------

slot_dir	O	X(5)	V	Display one of the following based on the type of CAT 2 hardware being used: - DUCAT: "below" - CAT: "above"
----------	---	------	---	--

Screen Transition: See Figure 3-4.

Screen WN5604a. Take Your Cash - On-Us

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 | I've just given you XXXXXXXXXXXXXXXX | 1 | withd_amt
2 | from XXXXXXXXXXXXXXXXXXXX           | 2 | acct_desc2
3 | XXXXXXXXXXXXXXXXXXXXXXXX.           | 3 | acct_no2
4 |                                     | 4 |
5 | Your cash is in the opening XXXXX.   | 5 | slot_dir
6 | Please take it.                     | 6 |
7 |                                     | 7 |
8 |                                     | 8 |
9 |                                     | 9 |
10|                                     | 10|
11|                                     | 11|
12|                                     | 12|
13|                                     | 13|
14|                                     | 14|
15|                                     | 15|
16|                                     | 16|
17|                                     | 17|
18|                                     | 18|
19|                                     | 19|
20|                                     | 20|
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
withd_amt	O	X(15)/W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.

STR 45089-S

Standard Data Elements: Screen WN5604a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc2	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club" <p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:</p> <ul style="list-style-type: none"> 070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"
acct_no2	O	X(22)	V	Display Account Number from Message 4201 Response.
slot_dir	O	X(5)	V	<p>Display one of the following based on the type of CAT hardware being used:</p> <ul style="list-style-type: none"> - DUCAT: "below" - CAT: "above"

Screen Transition: See Figure 3-4.

STR 44421-S
STR 45089-S
STR 46562-S

Screen WN5605. Two Balances (Chk/Sav) - Off-U.s

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1|                                     |1
2| I've just given you XXXXXXXXXXXXXXXX |2 withd_amt
3| from XXXXXXXX.                      |3 offus_acct_desc2
4|                                     |4
5|                                     |5
6|                                     |6
7| Here are your new balances:         |7
8+-----+                             |8
9| XXXXXXXXXXXXXXXXXXXXXXXX on deposit |9 Current_Bal
10|                                     |10
11| XXXXXXXXXXXXXXXXXXXXXXXX available now |11 Avail_Bal
12+-----+                             |12
13| May I help you with something else? |13
14|                                     |14
15| +-----+           +-----+      |15
16| | Yes  |           | No  |         |16
17| +-----+           +-----+      |17
18|                                     |18
19|                                     |19
20|                                     |20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
withd_amt	O	X(15)/W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
offus_acct_desc2	O	X(8)	V	Display one of the following: 001 - "Checking" 004 - "Savings" 014 - "Credit" based on the optional Product Type Code element returned in the response to FC4201, if present, or otherwise based on the Product Type Code in the request.
Current_Bal	O	X(25)/\$	R	Display Current_Bal from the Balance_Info structure in FC4201. Format Current_Bal based on Currency_Cde from the Balance_Info structure in FC4201.

STR 45089-S

STR 48212-S

Standard Data Elements: Screen WN5605 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
-----------	-----	--------	---------	----------

Avail_Bal	O	X(19)/Z	R	Display Avail_Bal from the Balance_Info structure in FC4201. Format Avail_Bal based on Currency_Cde from the Balance_Info structure in FC4201.
-----------	---	---------	---	--

Screen Transition: See Figure 3-5.

Screen WN5605a. Two Balances - On-Us

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1| I've just given you XXXXXXXXXXXXXXXX | 1 withd_amt
2| from XXXXXXXXXXXXXXXXXXXX           | 2 acct_desc2
3| XXXXXXXXXXXXXXXXXXXXXXXX.           | 3 acct_no2
4|                                     | 4
5| Here are your new balances:         | 5
6+-----+                             | 6
7| XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXX | 7 new_bal1/bal_txt1a
8|                                     XXXXXXXXXX | 8 bal_txt1b
9|                                     | 9
10| XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXX | 10 new_bal2/bal_txt2a
11|                                     XXXXXXXXXX | 11 bal_txt2b
12+-----+                             | 12
13| May I help you with something else? | 13
14|                                     | 14
15| +-----+           +-----+ | 15
16| | Yes |           | No | | 16
17| +-----+           +-----+ | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
withd_amt	O	X(15)/ W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.

STR 45089-S

Standard Data Elements: Screen WN5605a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc2	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club" <p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:</p> <ul style="list-style-type: none"> 070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"
acct_no2	O	X(22)	V	Display Account Number from Message 4201 Response.
new_bal1	O	X(25) / \$	R	<p>Format this amount based on the Currency Code from the Account Balance structure in Message 4201.</p> <p>This screen is displayed only if both balances indicated in Common Table 6-1 are returned in the Account Balance Structure of Message 4201. Display the first balance in Common NO TAG.</p>

STR 45089-S
 STR 44421-S
 STR 46426-S
 STR 46562-S

Standard Data Elements: Screen WN5605a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
bal_txt1a	O	X(20)	L	Refer to NO TAG and NO TAG for screen text associated with returned balance.
bal_txt1b	O	X(20)	L	Refer to NO TAG and NO TAG for screen text associated with returned balance.
new_bal2	O	X(25) / \$	R	Format this amount based on the Currency Code from the Account Balance structure in Message 4201. This screen is displayed only if both balances indicated in Common Table 6-1 are returned in the Account Balance Structure of Message 4201. Display the second balance shown in Common NO TAG.
bal_txt2a	O	X(20)	L	Refer to NO TAG and NO TAG for screen text associated with returned balance.
bal_txt2b	O	X(20)	L	Refer to NO TAG and NO TAG for screen text associated with returned balance.

Screen Transition: See Figure 3-5.

Comments: When displaying two balances, there should always be a single blank line between the two text descriptors. This should be true if the first balance takes up either one or two lines of text. The second balance and descriptor should move up accordingly.

Also, the first three lines of this screen should have the exact placement as they do on Screen WN5604.

STR 46426-S

Screen WN5606. Current_Bal Only (Chk/Sav) - Off-Us

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 | I've just given you XXXXXXXXXXXXXXXX | 1
2 | from XXXXXXXX. | 2 wthd_amt
3 | | 3 offus_acct_desc2
4 | | 4
5 | | 5
6 | | 6
7 | Here is your new balance: | 7
8 |-----+-----+ | 8
9 | XXXXXXXXXXXXXXXXXXXXXXXXXXXX on deposit | 9 Current_Bal
10 |-----+-----+ | 10
11 | | 11
12 | | 12
13 | May I help you with something else? | 13
14 | | 14
15 | +-----+ +-----+ | 15
16 | | Yes | | No | | 16
17 | +-----+ +-----+ | 17
18 | | | | +-----+ | 18
19 | | | | | EXIT | | 19
20 | | | | +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
wthd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
offus_acct_desc2	O	X(8)	V	Display one of the following: 001 - "Checking" 004 - "Savings" based on the optional Product Type Code element returned in the response to FC4201, if present, or otherwise based on the Product Type Code in the request.

STR 45089-S
STR 48212-S

Standard Data Elements: Screen WN5606 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
Current_Bal	O	X(25) / \$	R	Display Current_Bal from the Balance_Info structure in FC4201. Format Current_Bal based on Currency_Cde from the Balance_Info structure in FC4201.

Screen Transition: See Figure 3-5.

Screen WN5607. No Balance (Chk/Sav/Cred) - Off-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | I've just given you XXXXXXXXXXXXXXXX | 1
2 | from XXXXXXXX. | 2 wthd_amt
3 | | 3 offus_acct_desc2
4 | | 4
5 | | 5
6 | | 6
7 | | 7
8 | | 8
9 | | 9
10 | | 10
11 | | 11
12 | | 12
13 | May I help you with something else? | 13
14 | | 14
15 | +-----+ | 15
16 | | Yes | | No | | 16
17 | +-----+ | 17
18 | | | 18
19 | | EXIT | | 19
20 | | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
wthd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
offus_acct_desc2	O	X(8)	V	Display one of the following: 001 - "Checking" 004 - "Savings" 014 - "Credit" based on the optional Product Type Code element returned in the response to FC4201, if present, or otherwise based on the Product Type Code in the request.

Screen Transition: See Figure 3-5.

STR 45089-S

STR 48212-S

Screen WN5607a. No Balance - On-Us

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 | I've just given you XXXXXXXXXXXXXXXX | 1 | wthd_amt
2 | from XXXXXXXXXXXXXXXXXXXX | 2 | acct_desc2
3 | XXXXXXXXXXXXXXXXXXXXXXXX. | 3 | acct_no2
4 | | 4 |
5 | | 5 |
6 | | 6 |
7 | | 7 |
8 | | 8 |
9 | | 9 |
10 | | 10 |
11 | | 11 |
12 | | 12 |
13 | May I help you with something else? | 13 |
14 | | 14 |
15 | +-----+ | +-----+ | 15 |
16 | | Yes | | | No | | 16 |
17 | +-----+ | +-----+ | 17 |
18 | | | +-----+ | 18 |
19 | | | | EXIT | | 19 |
20 | | | +-----+ | 20 |
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
wthd_amt	O	X(15)/W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.

STR 45089-S

Standard Data Elements: Screen WN5607a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc2	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club" <p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:</p> <ul style="list-style-type: none"> 070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"
acct_no2	O	X(22)	V	<p>Display Account Number from Message 4201 Response.</p>

Screen Transition: See Figure 3-5.

Comments: The first three lines of this screen should have the exact placement as they do on Screen WN5604.

STR 44421-S
STR 45089-S
STR 46562-S

Screen WN5608. Avail_Bal Only (Chk/Sav) - Off-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | I've just given you XXXXXXXXXXXXXXXX | 1
2 | from XXXXXXXX. | 2 wthd_amt
3 | | 3 offus_acct_desc2
4 | | 4
5 | | 5
6 | | 6
7 | Here is your new balance: | 7
8 |-----+ 8
9 | XXXXXXXXXXXXXXXXXXXX available now | 9 Avail_Bal
10 |-----+ 10
11 | | 11
12 | | 12
13 | May I help you with something else? | 13
14 | | 14
15 | +-----+ | 15
16 | | Yes | | No | | 16
17 | +-----+ | 17
18 | | | +-----+ | 18
19 | | | | EXIT | | 19
20 | | | +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
wthd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
offus_acct_desc2	O	X(8)	V	Display one of the following: 001 - "Checking" 004 - "Savings" based on the optional Product Type Code element returned in the response to FC4201, if present, or otherwise based on the Product Type Code in the request.
Avail_Bal	O	X(25) / \$	R	Display Avail_Bal from the Balance_Info structure in FC4201. Format Avail_Bal based on Currency_Cde from the Balance_Info structure in FC4201.

Screen Transition: See Figure 3-5.

STR 45089-S

STR 48212-S

Screen WN5609. One Balance

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 | I've just given you XXXXXXXXXXXXXXXX | 1 withd_amt
2 | from XXXXXXXXXXXXXXXXXXXX | 2 acct_desc2
3 | XXXXXXXXXXXXXXXXXXXXXXXX. | 3 acct_no2
4 | | 4
5 | | 5
6 | | 6
7 | Here is your new balance: | 7
8 +-----+ 8
9 | XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX | 9 new_bal3/bal_txt3a
10 | XXXXXXXXXXXXXXXXXXXXXXXX | 10 bal_txt3b
11 +-----+ 11
12 | | 12
13 | May I help you with something else? | 13
14 | | 14
15 | +-----+ | +-----+ | 15
16 | | Yes | | No | | 16
17 | +-----+ | +-----+ | 17
18 | | | | +-----+ | 18
19 | | | | | EXIT | | 19
20 | | | | +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
withd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.

Standard Data Elements: Screen WN5609 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc2	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club" <p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:</p> <ul style="list-style-type: none"> 070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"
acct_no2	O	X(22)	V	Display Account Number from Message 4201 Response.
new_bal3	O	X(25) / \$	R	<p>Format this amount based on the Currency Code from the Account Balance structure in Message 4201.</p> <p>This screen is displayed only if one balance indicated in Common NO TAG is returned in the Account Balance Structure of Message 4201. Display the balance shown in Common NO TAG.</p>

STR 44421-S
 STR 45089-S
 STR 46426-S
 STR 46562-S

Standard Data Elements: : Screen WN5609 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
bal_txt3a	O	X(20)	L	Refer to NO TAG and NO TAG for screen text associated with returned balance.
bal_txt3b	O	X(20)	L	Refer to NO TAG and NO TAG for screen text associated with returned balance.

Screen Transition: See Figure 3-5.

Comments: The first three lines of this screen should have the exact placement as they do on Screen WN5604.

Screen WN5612. Withdrawal NSF With Balance In Account Currency Only - Off-Us

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 | I'm sorry. I can't do that right now. | 5
6 |                                     | 6
7 | You have XXXXXXXXXXXXXXXXXXXXXXXXXX | 7 offus_available
8 | available in XXXXXXXXX and you want | 8 offus_acct_desc4
9 | to get XXXXXXXXXXXXXXXXXXXXXXXXXX. | 9 wthd_amt
10 |                                     | 10
11 |                                     | 11
12 |                                     | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+          +-----+ | 15
16 | | Yes |          | No | | 16
17 | +-----+          +-----+ | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
offus_available	O	X(25) / \$	L	If Checking or Savings, display Avail_Bal from the Balance_Info structure in FC4201. If credit, display Cash_Advance_Amt from the Balance_Info structure in FC4201. Format Avail_Bal (or Cash_Advance_Amt) based on Currency_Cde from the Balance_Info structure in FC4201.
offus_acct_desc4	O	X(8)	V	Display one of the following: 001 - "Checking" 004 - "Savings" 014 - "Credit" based on the optional Product Type Code element returned in the response to FC4201, if present, or otherwise based on the Product Type Code in the request.

STR 45089-S

STR 48212-S

Withdrawal

Standard Data Elements: Screen WN5612 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
-----------	-----	--------	---------	----------

wthd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
----------	---	-----------	---	--

Screen Transition: See Figure 3-6.

Screen WN5612a. Withdrawal NSF With Balance In Account Currency Only - On-Us

```

111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 | I'm sorry. I can't do that right now. | 5
6 |                                     | 6
7 | You have XXXXXXXXXXXXXXXXXXXXXXXX | 7 available
8 | available XXXX XXXXXXXXXXXXXXXXXX | 8 in_from/acct_desc4
9 | XXXXXXXXXXXXXXXXXXXXXXXX and you want | 9 acct_no4
10 | to get XXXXXXXXXXXXXXXX. | 10 withd_amt
11 |                                     | 11
12 |                                     | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+ | +-----+ | 15
16 | | Yes | | | No | | 16
17 | +-----+ | +-----+ | 17
18 |                                     | +-----+ | 18
19 |                                     | | EXIT | | 19
20 |                                     | +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
available	O	X(25) / \$	L	<p>Format this amount based on the Currency Code from the Account Balance structure in Message 4201.</p> <p>Display the following balance from the Account Balance structure in FC4201, based on the product category:</p> <p>Available Balance - Checking/Current Savings Money Market Time Deposit Savings/Investment</p> <p>Available Credit Amount - Line of Credit Diners Club</p> <p>Cash Advance Amount - Visa MasterCard</p>

STR 46423-S

Standard Data Elements: Screen WN5612a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
in_from	O	X(4)	V	For Card Class 91, if CA Category is "Checking or Current" or "Savings and Investments, display "in". Otherwise, display "from". For Card Class 93, display "from".
acct_desc4	O	X(18)	V	If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club" For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display: 070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"
acct_no4	O	X(22)	V	Display Account Number from Message 4201 Response.
wthd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.

Screen Transition: See Figure 3-6.

STR 46424-S
 STR 44421-S
 STR 45089-S
 STR 46562-S

Screen WN5613. Withdrawal NSF Without Balances - Off-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 | I'm sorry.  I can't do that right now. | 6
7 |                                     | 7
8 | You do not have enough money available | 8
9 | in XXXXXXXX to get XXXXXXXXXXXXXXXX. | 9 offus_acct_desc4/wthd_amt
10 |                                     | 10
11 |                                     | 11
12 |                                     | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+          +-----+ | 15
16 | | Yes |          | No | | 16
17 | +-----+          +-----+ | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
offus_acct_desc4	O	X(8)	V	Display one of the following: 001 - "Checking" 004 - "Savings" 014 - "Credit" based on the optional Product Type Code element returned in the response to FC4201, if present, or otherwise based on the Product Type Code in the request.
wthd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.

Screen Transition: See Figure 3-6.

STR 45089-S
STR 48212-S

Standard Data Elements: Screen WN5613a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
				For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display: 070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"
in_from	O	X(4)	V	For Card Class 91, if CA Category is "Checking or Current" or "Savings and Investments", display "in". Otherwise, display "from". For Card Class 93, display "from".
acct_no4	O	X(22)	V	Display Account Number from Message 4201 Response.
wthd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.

Screen Transition: See Figure 3-6.

STR 44421-S
STR 45089-S
STR 46424-S

Screen WN5615. Two Balances (Cred) - Off-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | I've just given you XXXXXXXXXXXXXXXX | 1
2 | from Credit. | 2 wthd_amt
3 | | 3
4 | | 4
5 | | 5
6 | | 6
7 | | 7
8 | | 8
+-----+
9 | You now have XXXXXXXXXXXXXXXXXXXXXXXX | 9 Avail_Credit_Amt
10 | total credit available. Of this, | 10
11 | XXXXXXXXXXXXXXXXXXXXXXXX is available | 11 Cash_Advance_Amt
12 | for cash advances. | 12
13 | | 13
14 | | 14
15 | | 15
16 | May I help you with something else? | 16
17 | | 17
18 | +-----+ +-----+ +-----+ | 18
19 | | Yes | | No | | EXIT | | 19
20 | +-----+ +-----+ +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
wthd_amt	O	X(15)/W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
Avail_Credit_Amt	O	X(25)/\$	V	Display Avail_Credit_Amt from the Balance_Info structure in FC4201. Format Avail_Credit_Amt based on Currency_Cde from the Balance_Info structure in FC4201.
Cash_Advance_Amt	O	X(25)/\$	V	Display Cash_Advance_Amt from the Balance_Info structure in FC4201. Format Cash_Advance_Amt based on Currency_Cde from the Balance_Info structure in FC4201.

Screen Transition: See Figure 3-5.

STR 45089-S

Screen WN5616. Avail_Credit_Amt (Cred) - Off-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1|                                     | 1
2| I've just given you XXXXXXXXXXXXXXXX | 2 wthd_amt
3| from Credit.                         | 3
4|                                     | 4
5|                                     | 5
6|                                     | 6
7| Here is your new balance:            | 7
8+-----+                             | 8
9| XXXXXXXXXXXXXXXXXXXXXXXX total credit available | 9 Avail_Credit_Amt
10|                                     | 10
11+-----+                             | 11
12|                                     | 12
13| May I help you with something else? | 13
14|                                     | 14
15| +-----+          +-----+      | 15
16| | Yes |          | No |          | 16
17| +-----+          +-----+      | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
wthd_amt	O	X(15)/W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
Avail_Credit_Amt	O	X(25)/\$	R	Display Avail_Credit_Amt from the Balance_Info structure in FC4201. Format Avail_Credit_Amt based on Currency_Cde from the Balance_Info structure in FC4201.

Screen Transition: See Figure 3-5.

STR 45089-S

Screen WN5620. Cash_Advance_Amt (Cred) - Off-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | I've just given you XXXXXXXXXXXXXXXX | 1
2 | from Credit. | 2 withd_amt
3 | | 3
4 | | 4
5 | | 5
6 | | 6
7 | Here is your new balance: | 7
8 |-----+-----+ 8
9 | XXXXXXXXXXXXXXXXXXXXXXXX cash advance available | 9 Cash_Advance_Amt
10 | | 10
11 |-----+-----+ 11
12 | May I help you with something else? | 12
13 | | 13
14 | | 14
15 | +-----+ +-----+ | 15
16 | | Yes | | No | | 16
17 | +-----+ +-----+ | 17
18 | | | | +-----+ | 18
19 | | | | | EXIT | | 19
20 | | | | +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
withd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
Cash_Advance_Amt	O	X(25) / \$	R	Display Cash_Advance_Amt from the Balance_Info structure in FC4201. Format Cash_Advance_Amt based on Currency_Cde from the Balance_Info structure in FC4201.

Screen Transition: See Figure 3-5.

STR 45089-S

Screen WN5621. Ready To Give Cash - Off-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 | Okay. I'm ready to give you       | 4
5 | XXXXXXXXXXXXXXXXXXXX.             | 5 withd_amt
6 |                                     | 6
7 | The amount that will be deducted   | 7
8 | from your XXXXXXXXX will be       | 8 offus_acct_desc3
9 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX. | 9 Eqv_Txn_Amt
10 |                                     | 10
11 |                                     | 11
12 |                                     | 12
13 | Would you like to continue?       | 13
14 |                                     | 14
15 | +-----+           +-----+    | 15
16 | | Yes  |           | No  |       | 16
17 | +-----+           +-----+    | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
withd_amt	O	X(15)/ W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
offus_acct_desc3	O	X(8)	V	Display one of the following: 001 - "Checking" 004 - "Savings" 014 - "Credit" based on the optional Product Type Code element returned in the response to FC4201, if present, or otherwise based on the Product Type Code in the request.
Eqv_Txn_Amt	O	X(25)/ \$	V	Display Eqv_Txn_Amt in FC4201. Format Eqv_Txn_Amt based on Equivalent Transaction Currency in FC4201.

Screen Transition: See Figure 3-3.

STR 45089-S
 STR 46586-S
 STR 48212-S

Withdrawal

Messages to/from ESPs: If customer chooses *not* to continue, send FC4202 with Rev_Reason_Cde = Customer Declined in background.

If this screen times out, or the customer presses **EXIT**, send FC 4202 with Rev_Reason_Cde = Timeout or Exit in background.

Standard Data Elements: Screen WN5621a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc3	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club" <p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:</p> <ul style="list-style-type: none"> 070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"
acct_no3	O	X(22)	V	Display Account Number from Message 4201 Response.
Eqv_Txn_Amt	O	X(25) / \$	V	Display Eqv_Txn_Amt in FC4201. Format Eqv_Txn_Amt based on Equivalent Transaction Currency in FC4201.

Screen Transition: See Figure 3-3.

Messages to/from ESPs: If customer chooses *not* to continue, send FC4202 with Rev_Reason_Cde = Customer Declined in background.

If this screen times out, or the customer presses **EXIT**, send FC4202 with Rev_Reason_Cde = Timeout or Exit in background.

STR 44421-S
STR 45089-S
STR 46562-S

Screen WN5622. Won't Give Cash

```

111111111122222222233333333334
123456789012345678901234567890
+-----+
1|                                     |1
2|                                     |2
3|                                     |3
4|                                     |4
5|                                     |5
6|                                     |6
7| Okay.  I won't give you the cash. |7
8|                                     |8
9|                                     |9
10|                                    |10
11|                                    |11
12|                                    |12
13| Would you like to give me a different |13
14| amount?                             |14
15| +-----+           +-----+      |15
16| | Yes  |           | No  |          |16
17| +-----+           +-----+      |17
18|                                     |18
19|                                     |19
20|                                     |20
+-----+

```

Screen Transition: See Figure 3-3.

Screen WN5623. Limit Exceeded - Off-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 | I'm sorry. I can't do that right now. | 5
6 |                                     | 6
7 | That would put you over the limit    | 7
8 | for your XXXXXXXX.                  | 8 offus_acct_desc8/offus_acct_desc8 (not show
9 |                                     | 9
10 |                                     | 10
11 |                                     | 11
12 |                                     | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+          +-----+      | 15
16 | | Yes  |          | No  |          | 16
17 | +-----+          +-----+      | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
offus_acct_desc8	O	X(8)	V	Display one of the following: 001 - "Checking" 004 - "Savings" 014 - "Credit" based on the optional Product Type Code element returned in the response to FC4201, if present, or otherwise based on the Product Type Code in the request.
offus_acct_desc9	O	X(8)	V	Not shown in English.

Screen Transition: See Figure 3-6.

STR 40366-S
STR 45089-S
STR 48212-S

Screen WN5623a. Limit Exceeded - On-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 | I'm sorry.  I can't do that right now. | 5
6 |                                     | 6
7 | That would put you over the limit      | 7
8 | for your XXXXXXXXXXXXXXXXXXXX         | 8 acct_desc8/acct_desc9 (not shown)
9 | XXXXXXXXXXXXXXXXXXXXXXXXXXXX.         | 9 acct_no8
10 |                                     | 10
11 |                                     | 11
12 |                                     | 12
13 | May I help you with something else?    | 13
14 |                                     | 14
15 | +-----+          +-----+         | 15
16 | | Yes  |          | No  |          | 16
17 | +-----+          +-----+         | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc8	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 45089-S

STR 46562-S

Standard Data Elements: Screen WN5623a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
-----------	-----	--------	---------	----------

For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:

070-072 - "Visa"

073-074 - "MasterCard"

075 - "Diners Club"

acct_desc9	O	X(8)	V	Not shown in English.
acct_no8	O	X(22)	V	Display Account Number from Message 4201 Response.

Screen Transition: See Figure 3-6.

STR 40366-S

STR 44421-S

STR 45089-S

Screen WN5624. Withdrawal NSF With Balances In Account/Dispense Currencies - Off-U's

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 | I'm sorry.  I can't do that right now. | 5
6 |                                     | 6
7 | You asked for XXXXXXXXXXXXXXXX.  With | 7 withd_amt
8 | XXXXXXXXXXXXXXXXXXXXXXXX available | 8 offus_available
9 | in XXXXXXXX, I can only give you | 9 offus_acct_desc4
10 | up to XXXXXXXXXXXXXXXXXXXXXXXX. | 10 offus_available_disp
11 |                                     | 11
12 |                                     | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+          +-----+ | 15
16 | | Yes |          | No | | 16
17 | +-----+          +-----+ | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
withd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
offus_available	O	X(25) / \$	V	If Checking or Savings, display Avail_Bal in the account currency from the Balance_Info structure in FC4201. If credit, display Cash_Advance_Amt in the account currency from the Balance_Info structure in FC4201. Format Avail_Bal (or Cash_Advance_Amt) based on Currency_Cde from the account currency Balance_Info structure in FC4201.

STR 45089-S

Standard Data Elements: Screen WN5624 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
offus_acct_desc4	O	X(8)	V	Display one of the following: 001 - "Checking" 004 - "Savings" 014 - "Credit" based on the optional Product Type Code element returned in the response to FC4201, if present, or otherwise based on the Product Type Code in the request.
offus_available_disp	O	X(25) / \$	V	If Checking or Savings, display Avail_Bal in the dispense currency from the Balance_Info structure in FC4201. If credit, display Cash_Advance_Amt in the dispense currency from the Balance_Info structure in FC4201. Format Avail_Bal (or Cash_Advance_Amt) based on Currency_Cde from the dispense currency Balance_Info structure in FC4201.

Screen Transition: See Figure 3-6.

STR 45089-S

STR 48212-S

Screen WN5624a. Withdrawal NSF With Balances In Account/Dispense Currencies - On-Us

```

111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 | I'm sorry. I can't do that right now. | 4
5 |                                     | 5
6 | You asked for XXXXXXXXXXXXXXXX.       | 6 wthd_amt
7 | With XXXXXXXXXXXXXXXXXXXXXXXX        | 7 available
8 | available XXXX XXXXXXXXXXXXXXXXXXXX    | 8 in_from/acct_desc4
9 | XXXXXXXXXXXXXXXXXXXXXXXX, I can only   | 9 acct_no4
10 | give you up to                       | 10
11 | XXXXXXXXXXXXXXXXXXXXXXXX.            | 11 available_disp
12 |                                     | 12
13 | May I help you with something else?   | 13
14 |                                     | 14
15 | +-----+           +-----+       | 15
16 | | Yes |           | No |           | 16
17 | +-----+           +-----+       | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
wthd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.

STR 45089-S

Standard Data Elements: Screen WN5624a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
available	O	X(25) / \$	L	<p>Format this amount based on the Currency Code from the Account Balance structure in Message 4201.</p> <p>Display the following balance from the Account Balance structure in FC4201, based on the product category:</p> <p>Available Balance - Checking/Current Savings Money Market Time Deposit Savings/Investment</p> <p>Available Credit Amount - Line of Credit Diners Club</p> <p>Cash Advance Amount - Visa MasterCard</p>
in_from	O	X(4)	V	<p>For Card Class 91, if CA Category is "Checking or Current" or "Savings and Investments", display "in". Otherwise, display "from".</p> <p>For Card Class 93, display "from".</p>
acct_desc4	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <p>1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"</p>

STR 46424-S
 STR 46423-S
 STR 45089-S
 STR 46562-S

Standard Data Elements: Screen WN5624a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
				For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display: 070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"
acct_no4	O	X(22)	V	Display Account Number from Message 4201 Response.
available_disp	O	X(25) / \$	V	Format this amount based on the Equivalent Transaction Currency Code (dispense currency) received in FC4201. Display the following balance from the Account Balance structure in FC4201, based on the product category: Available Balance - Checking/Current Savings Money Market Time Deposit Savings/Investment Available Credit Amount - Line of Credit Diners Club Cash Advance Amount - Visa MasterCard

Screen Transition: See Figure 3-6.

STR 44421-S

STR 45089-S

STR 46423-S

STR 46562-S

Screen WN5625. Which Currency (2)

```

      11111111111222222222223333333334
1234567890123456789012345678901234567890
+-----+
1 | What kind of cash would you like? | 1
2 |                                   | 2
3 |                                   | 3
4 |                                   | 4
5 |                                   | 5
6 +-----+                         | 6
7 |                                     | 7 See Comments Below
8 +-----+                         | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12+-----+                         | 12
13|                                     | 13 See Comments Below
14+-----+                         | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|         EXIT        | 19
20+-----+                 | 20

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
buttonX_top (X=1-2)	O	X(29)	L	See Process WN5651 for text to display.
buttonX_cent (X=1-2)	O	X(29)	L	See Process WN5651 for text to display.
buttonX_bottom (X=1-2)	O	X(38)	L	See Process WN5651 for text to display.

Screen Transition: See Figure 3-7.

Comments: See comments on Screen PN5506.

Screen WN5627. Which Currency (4)

```

111111111122222222223333333334.
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 | What kind of cash would you like? | 2
3 |                                     | 3
4 | +-----+ | 4
5 | | | | | 5 See Comments Below
6 | +-----+ | 6
7 | +-----+ | 7
8 | | | | | 8 See Comments Below
9 | +-----+ | 9
10 | +-----+ | 10
11 | | | | | 11 See Comments Below
12 | +-----+ | 12
13 | +-----+ | 13
14 | | | | | 14 See Comments Below
15 | +-----+ | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
buttonX_top (X=1-4)	O	X(29)	L	See Process WN5651 for text to display.
buttonX_cent (X=1-4)	O	X(29)	L	See Process WN5651 for text to display.
buttonX_bottom (X=1-4)	O	X(38)	L	See Process WN5651 for text to display.

Screen Transition: See Figure 3-7.

Comments: See comments on Screen PN5506.

Screen WN5634. How Much Cash Would You Like - 4 Amounts

```

111111111122222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 1 See below
2 | How much cash would you like?                | 2
3 |                                                | 3
4 | +-----+ +-----+ | 4
5 | |XXXXXXXXXXXXXXXXXX| |XXXXXXXXXXXXXXXXXX| | 5 amt1/amt2
6 | +-----+ +-----+ | 6
7 | +-----+ +-----+ | 7
8 | |XXXXXXXXXXXXXXXXXX| |XXXXXXXXXXXXXXXXXX| | 8 amt3/amt4
9 | +-----+ +-----+ | 9
10| |                                                | 10
11| |                                                | 11
12| |                                                | 12
13| |                                                | 13
14| |                                                | 14
15| |                                                | 15
16| |                                                | 16
17| |                                                | 17
18| |                                                | 18
19| |EXIT| | 19
20| |                                                | 20
+-----+

```

Variables: Line 1: alt_txt1/alt_amt1/alt_txt2 OR
alt_txt3/alt_amt2/alt_txt4/alt_amt3/alt_txt5

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
alt_txt1	O	X(12)	V	Display one of the following: - "I only have " - "I'm out of " - blanks
alt_amt1	O	X(15)/W	V	See Comments.
alt_txt2	O	X(7)	V	Display "bills." or leave blank.
alt_txt3	O	X(7)	V	Display "I have " or leave blank.
alt_amt2	O	X(15)/W	V	See Comments.
alt_txt4	O	X(5)	V	Display "and " or leave blank.

Standard Data Elements: Screen WN5634 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
alt_amt3	O	X(15)/W	V	See Comments.
alt_txt5	O	X(7)	V	Display "bills." or leave blank.
amt _n (n=1-4)	O	X(15)	C	Display the amounts (and associated currency descriptors of the amounts) available, which were set in Process WN5650.

Screen Transition: See Figure 3-2.

Comments: If the CAT has all bill denominations for the dispense currency and type, leave blank.

Otherwise, display one of the following based on the number of different denominations normally available, and the current cassette status.

# Denoms Normally Available	# Denoms Currently Available	"alt_txt" to Display
4 denoms	3 denoms	"I'm out of X(15) bills." where X(15) is the currency descriptor and denomination of the bill that has run out.
4 denoms	2 denoms	"I have X(15) and X(15) bills." where X(15) and X(15) are the currency descriptors and denominations of the remaining bills. Note: For some languages, it is possible that this phrase would exceed 51 characters. If this occurs, the whole phrase should be left blank.
4 denoms	1 denom	"I only have X(15) bills." where X(15) is the currency descriptor and denomination of the remaining bill.
3 denoms	2 denoms	"I'm out of X(15) bills." (See 4/3 case above).
3 denoms	1 denom	"I only have X(15) bills." (See 4/1 case above).
2 denoms	1 denom	"I only have X(15) bills." (See 4/1 case above).

The way the variables have been defined for this screen, display either alt_txt1, alt_amt, and alt_txt2 or alt_txt3, alt_amt2, alt_txt4, alt_amt3, and alt_txt5 depending upon the bills available.

Messages to/from ESPs: If PIN reentry is not required because this is the first transaction of the session, send FC4201.

Screen WN5636. How Much Cash (Keypad)

```

1111111111222222222233333333334
123456789012345678901234567890
+-----+
1 | Tell me how much cash you would like, | 1
2 | in multiples of XXXXXXXXXXXXXXXX. | 2 mult_amt
3 | Then touch ENTER. | 3
4 | (Touch CLEAR to erase.) | 4
5 | +-----+ | 5
6 | |XXXXXX-----| | 6 ccode/wthd_amt
7 | +-----+ | 7
8 | | | | | 8
9 | | 1 | 2 | 3 | | 9
10 | | | | | 10
11 | +-----+ ENTER | 11
12 | | 4 | 5 | 6 | | 12
13 | | | | | 13
14 | +-----+ | 14
15 | | | | | 15
16 | | 7 | 8 | 9 | | 16
17 | | | | | 17
18 | +-----+ | 18
19 | CLEAR | 0 | | EXIT | 19
20 | | | | | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
mult_amt	O	X(15)/W	V	Display the value of the lowest denomination available for dispensing cash. Format mult_amt with currency descriptor based on the dispense currency.
ccode	O	X(6)	R	Display the currency descriptor for the transfer currency transaction code.
wthd_amt	I	X(14)/W	L	Entry is typewriter style, left to right.

Screen Transition: See Figure 3-2.

STR 46579-S

Screen WN5637. Do Not Dispense Cash

```
111111111122222222223333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 | I'm sorry. I can't give cash right | 6
7 | now.                               | 7
8 |                                     | 8
9 | The printer isn't working.         | 9
10 | Please reset the printer and      | 10
11 | try again.                        | 11
12 |                                     | 12
13 |                                     | 13
14 |                                     | 14
15 |                                     | 15
16 | May I help you with something else? | 16
17 |                                     | 17
18 | +-----+      +-----+      +-----+ | 18
19 | | Yes |      | No |      | EXIT | | 19
20 | +-----+      +-----+      +-----+ | 20
+-----+
```

Screen Transition: See Figure 3-8.

Screen WN5638. Can't Use Linked Credit Card For Cash - Off-Us

```

1111111111222222222233333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 | I'm sorry.                         | 5
6 | I can't give you cash when you    | 6
7 | are using this card.              | 7
8 |                                   | 8
9 |                                   | 9
10|                                   | 10
11|                                   | 11
12|                                   | 12
13|                                   | 13
14|                                   | 14
15|                                   | 15
16| May I help you with something else? | 16
17|                                   | 17
18| +-----+ +-----+ +-----+ | 18
19| | Yes | | No | | EXIT | | 19
20| +-----+ +-----+ +-----+ | 20
+-----+

```

Screen Transition: See Figure 3-6.

STR 45089-S
STR 44421-S
STR 46427-S

Screen WN5638a. Can't Use Linked Credit Card For Cash - On-Us

111111111122222222223333333334
1234567890123456789012345678901234567890

```

1 |-----+-----+-----+
2 |
3 |
4 |
5 | I'm sorry.
6 | I can't give you cash from your
7 | XXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX
8 | when you are using your Citicard.
9 |
10 | In order to get a cash advance from
11 | this account, please start over using
12 | your XXXXXXXXXXXX.
13 |
14 |
15 |
16 | May I help you with something else?
17 |
18 | +-----+ +-----+ +-----+
19 | | Yes | | No | | EXIT |
20 | +-----+ +-----+ +-----+
  
```

acct_desc11/acct_no11

acct_desc22

Standard Data Elements

Data Name	I/O	Format	L-R-V	Comments
acct_desc11	O	X(11)	V	Display one of the following based on the optional Product Category Code element returned in the profile: 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
acct_no11	O	X(22)	V	Display Account Number from Message 4201 Response.

STR 44421-S
STR 44649-S
STR 45089-S

Standard Data Elements: Screen WN5638a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc22	O	X(11)	V	Display one of the following based on the optional Product Category Code element returned in the profile: 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

Screen Transition: See Figure 3-6.

STR 44649-S

Screen WN5640. Get Cash From Which Loan

```
1111111111222222222233333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 | Where shall I get your cash?      | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 | +-----+                         | 6
7 | | Line of Credit                  | 7
8 | +-----+                         | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 | +-----+                         | 12
13 | | Loan                          | 13
14 | +-----+                         | 14
15 |                                    | 15
16 |                                    | 16
17 |                                    | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+
    | EXIT |
+-----+
```

Screen Transition: See Figure 3-1.

Screen WN5641. Get Cash From Which Linked Credit Card

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
1	+
2	Where shall I get your cash?
3	
4	
5	+-----+
6	Visa
7	+-----+
8	
9	+-----+
10	MasterCard
11	+-----+
12	
13	+-----+
14	Diners Club
15	+-----+
16	
17	
18	+-----+
19	EXIT
20	+-----+
	+

Screen Transition: See Figure 3-1.

Screen WN5642. Get Cash From Which Savings

```
1111111111222222222233333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 | Where shall I get your cash?      | 2
3 |                                     | 3
4 | +-----+                         | 4
5 | | Savings |                       | 5
6 | +-----+                         | 6
7 | +-----+                         | 7
8 | | Money Market |                   | 8
9 | +-----+                         | 9
10| +-----+                         | 10
11| | Time Deposits |                 | 11
12| +-----+                         | 12
13| +-----+                         | 13
14| | Other |                       | 14
15| +-----+                         | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
   |                                     |
   | +-----+ | 18
   | | EXIT | | 19
   | +-----+ | 20
+-----+
```

Screen Transition: See Figure 3-1.

3.6 Processes

This section shows the processes defined for the Withdrawal application.

PRC WN5650. Determine Amounts

Look at the On-Us Cash Dispensing Algorithm table to determine the four or eight amounts that have been designated as the ICC amounts to display for the selected currency.

These amounts vary based on the status of the cash cassettes (the bill denominations actually available).

The amount should be displayed in the appropriate format for the currency, based on the currency code of the bills loaded.

Screen Transition: See Figure 3-2.

PRC WN5651. Currency Decision

Determine what cash currencies are available for dispense based on the currencies loaded in the CAT, the status of the cash cassettes, and the list of currencies specified for ICC. Set variables to display on cash selection screen(s).

See Table 3-1 for the appropriate settings for these variables. If a particular currency is supported, its choice on the menu should appear in the order specified in the Cash Dispensing Mechanism (CDM) configuration.

Screen Transition: See Figure 3-7.

Chapter 4

Balance Inquiry

The Balance Inquiry application provides balance information for specific account types at the customer's request.

This chapter covers the following:

- Supported ESP Messages (Section 4.1)
- Processing Overview (Section 4.2)
- Flowcharts (Section 4.3)
- Special Tables (Section 4.4)
- Screens (Section 4.5)
- Processes (Section 4.6)

4.1 Supported ESP Messages

The Balance Inquiry application uses ESP messages.

Message ID	Message Description
4501	Balance Inquiry
4502	Transaction Journal Inquiry
4604/X11FC*	Profile with Balance/Citicard Summary

NOTE

The Profile message is sent in Product Select, and therefore does not appear in the flowcharts of this chapter. The responses, however, are handled throughout this chapter. Therefore, the message is included above.

The SFS Function Code is determined from the Message ID and the SFS Function Code offset from Message 4117. For ICC Balance Inquiry and TJ Inquiry, this is 4541 and 4542. For Off-Us Balance Inquiry and TJ Inquiry, this is 4561 and 4562.

4.2 Processing Overview

The following provides the Balance Inquiry processing overview:

- Select Product Category.
- Check the profile to determine if the customer has an account of the selected Product Category.
- Select an account. If there is more than one account of the selected Product Category, display account resolver screens.
- Send Off-Us Account Balance Inquiry (FC4501).
- If the inquiry was successful and a balance was received, queue the BN Transaction record, and display an appropriate balance screen based on account selected and data returned.
- If the selected account supports Transaction Journal (TJ), offer the customer the choice to see this information and to print it out.
- If the balance inquiry was not successful, display one of the standard error screens.

4.3 Flowcharts

This section shows the flowcharts for the Balance Inquiry application.

Unless otherwise specified, pressing the **EXIT** key on any screen activates Screen 5552 in the Product Select application.

Similarly, timeouts transition to the standard "Timeout" routine in Common Screens and Procedures.

Balance Inquiry

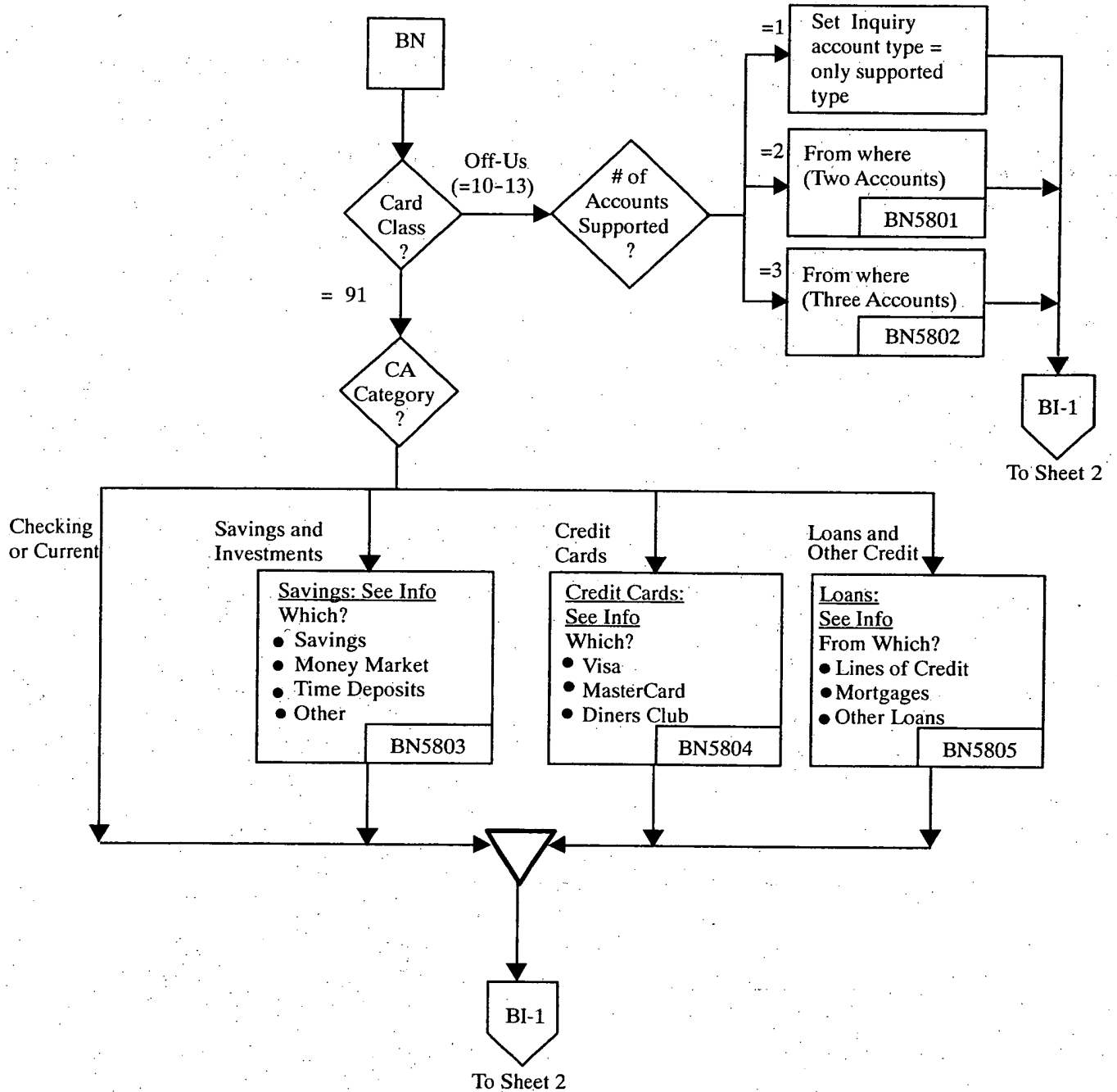


Figure 4-1. Category Menus to Choose Account (Sheet 1 of 7)

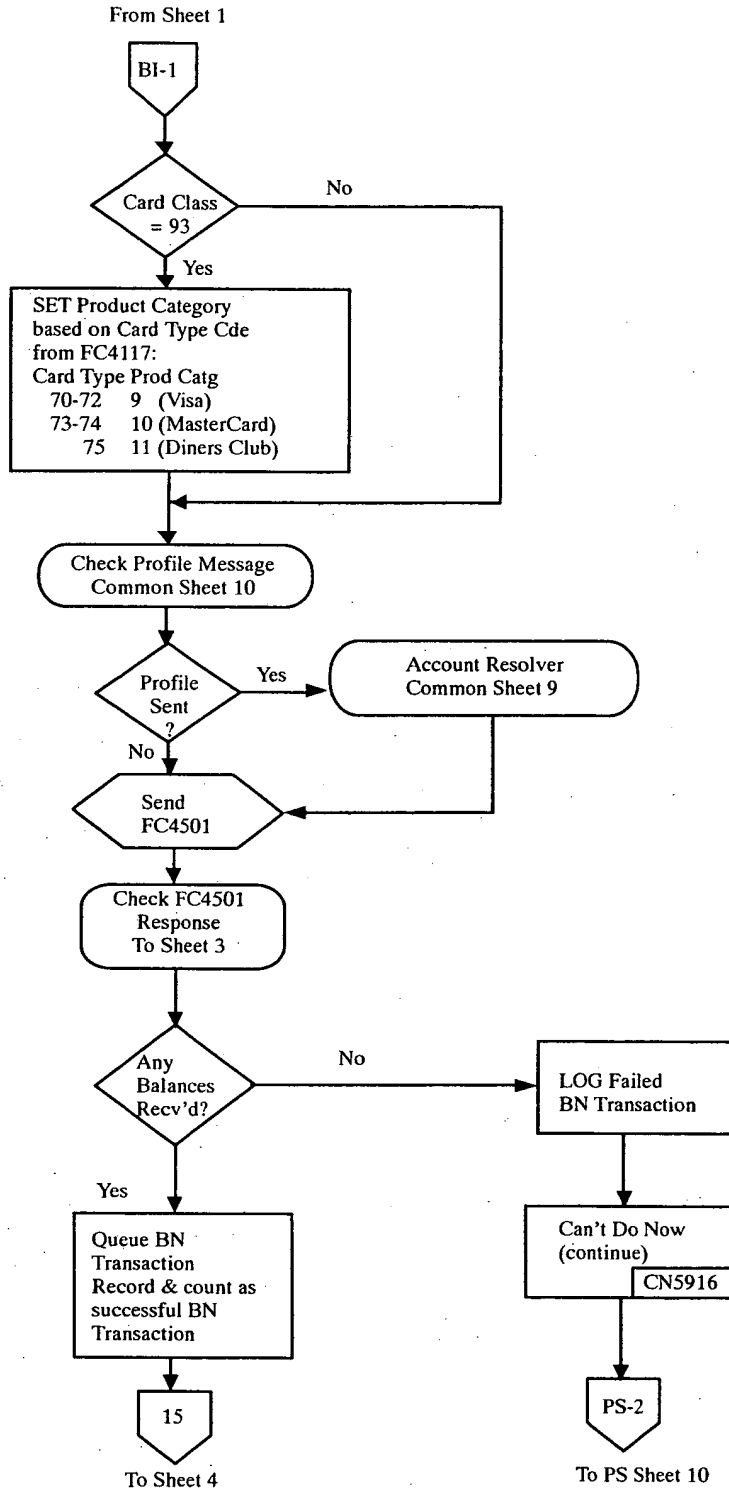


Figure 4-2. Show Balance Detail (Sheet 2 of 7)

STR 46745-S

Balance Inquiry

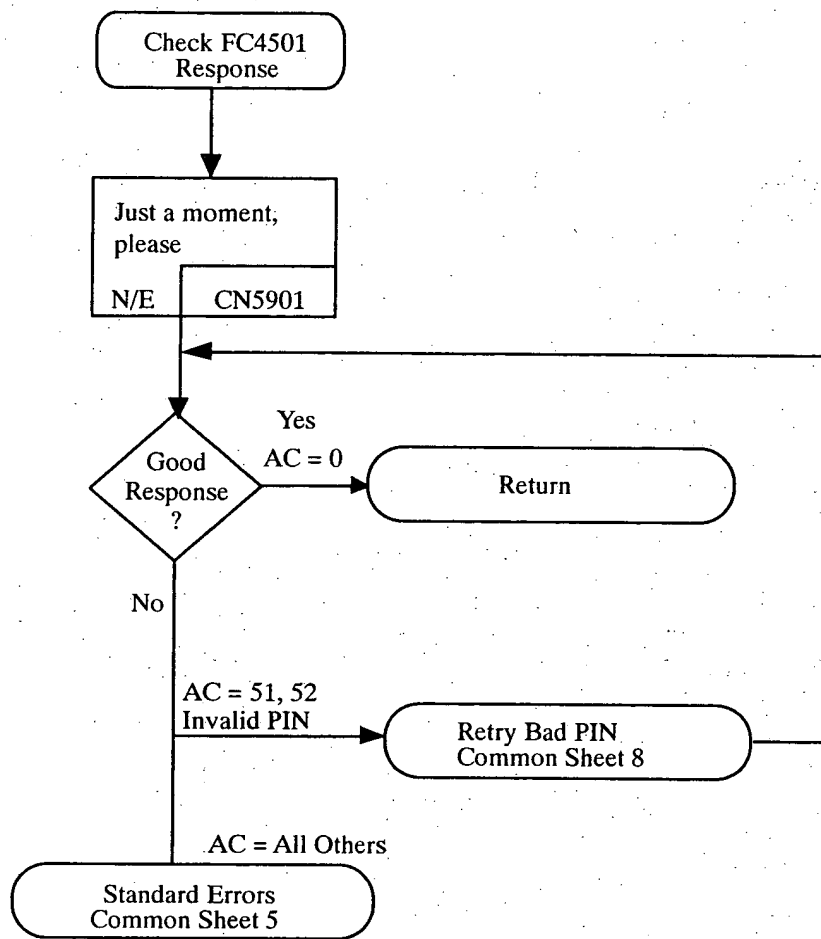


Figure 4-3. Check FC4501 Response (Sheet 3 of 7)

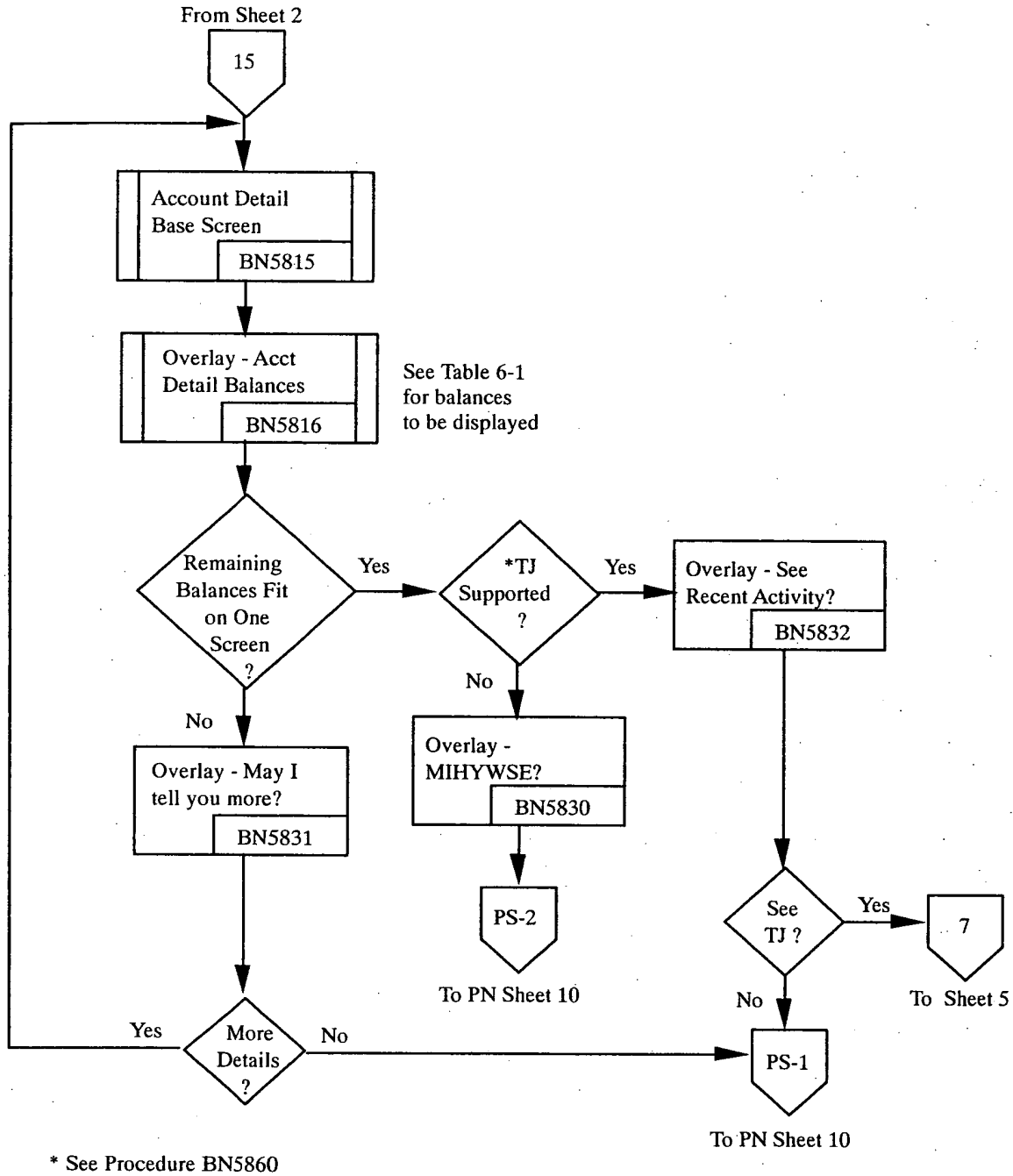
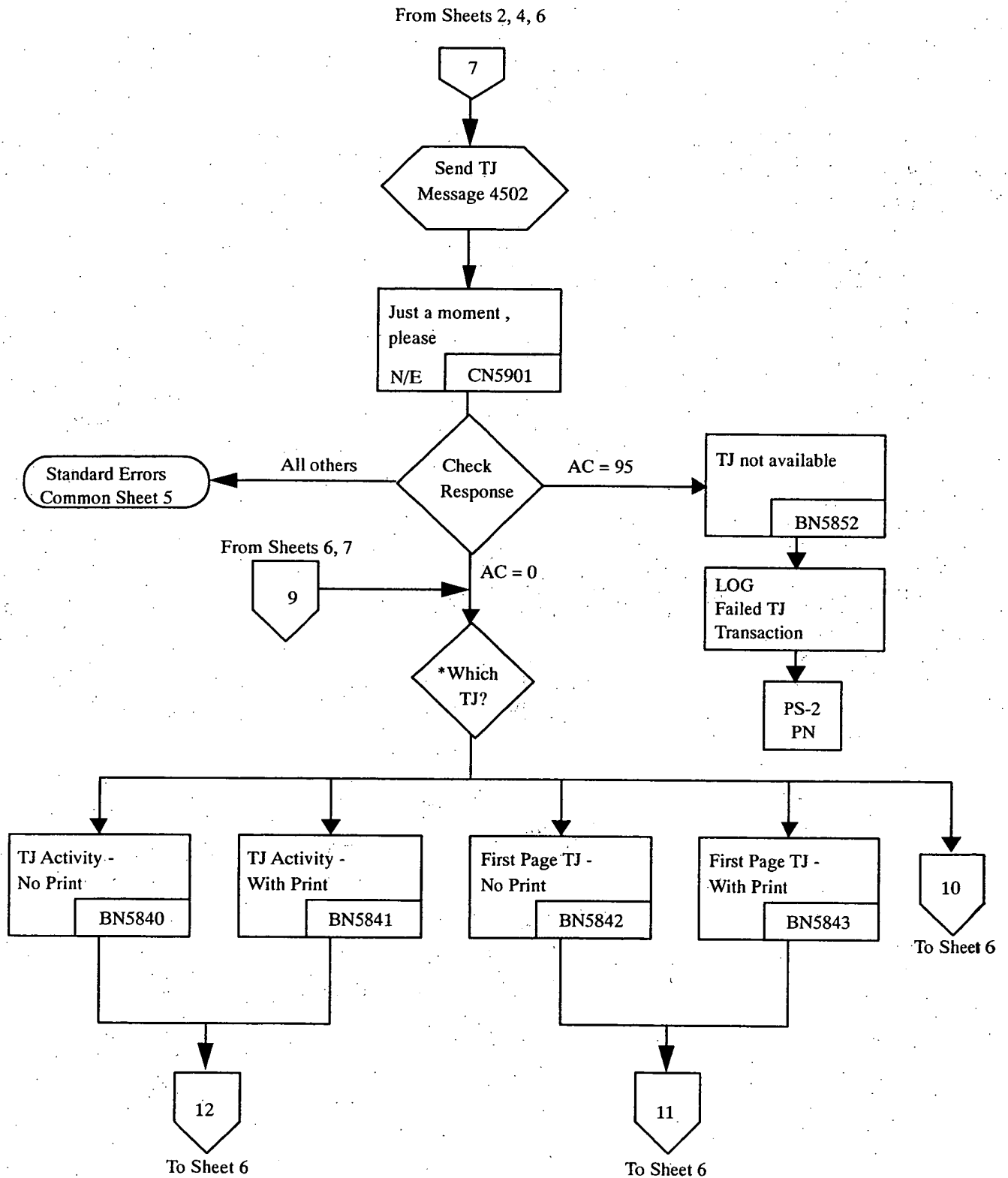


Figure 4-4. Prepare Detail Screen (Sheet 4 of 7)

Balance Inquiry



*See Table 4-1 for details.

Figure 4-5. TJ Information (Sheet 5 of 7)

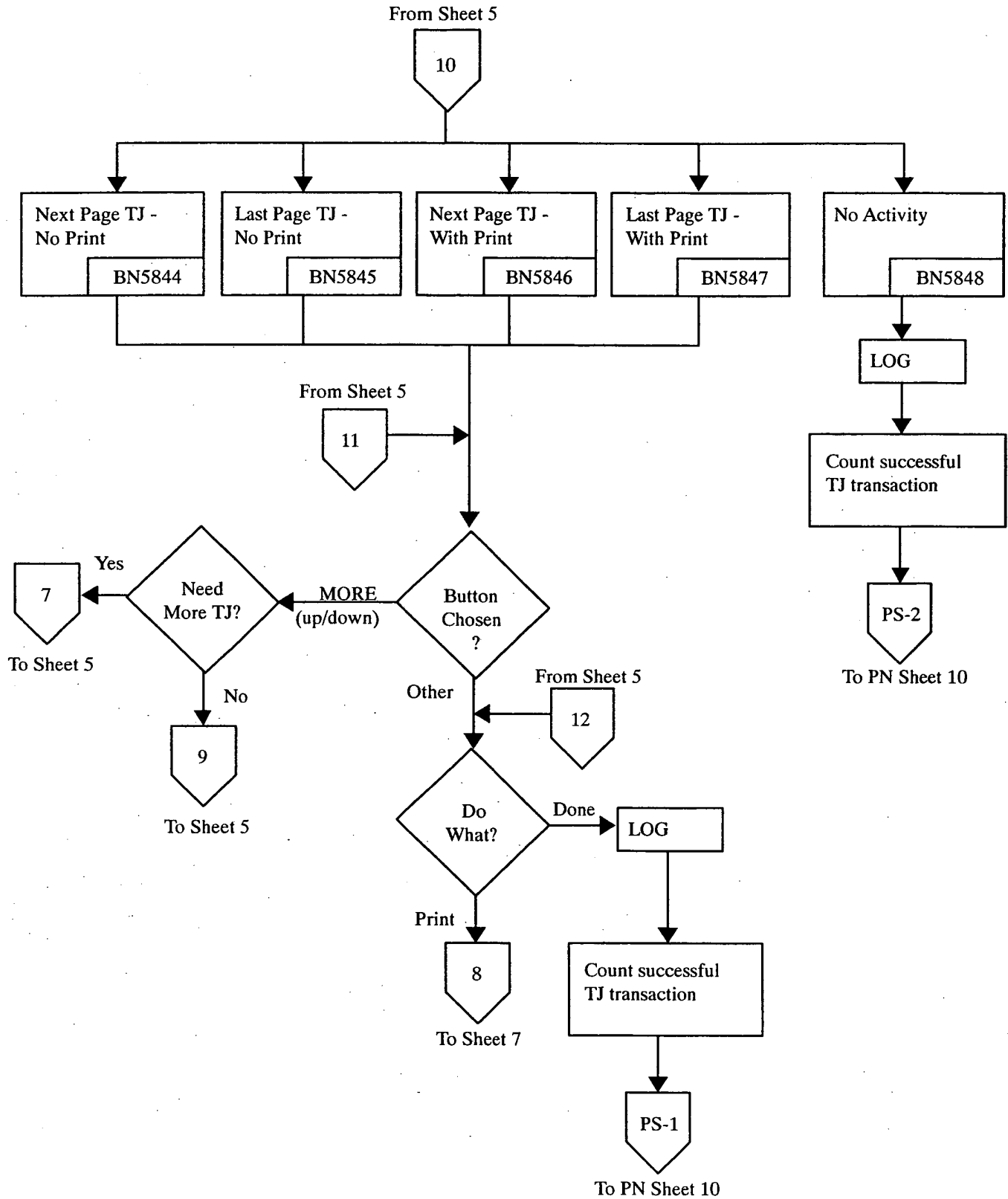


Figure 4-6. TJ Information - Continued (Sheet 6 of 7)

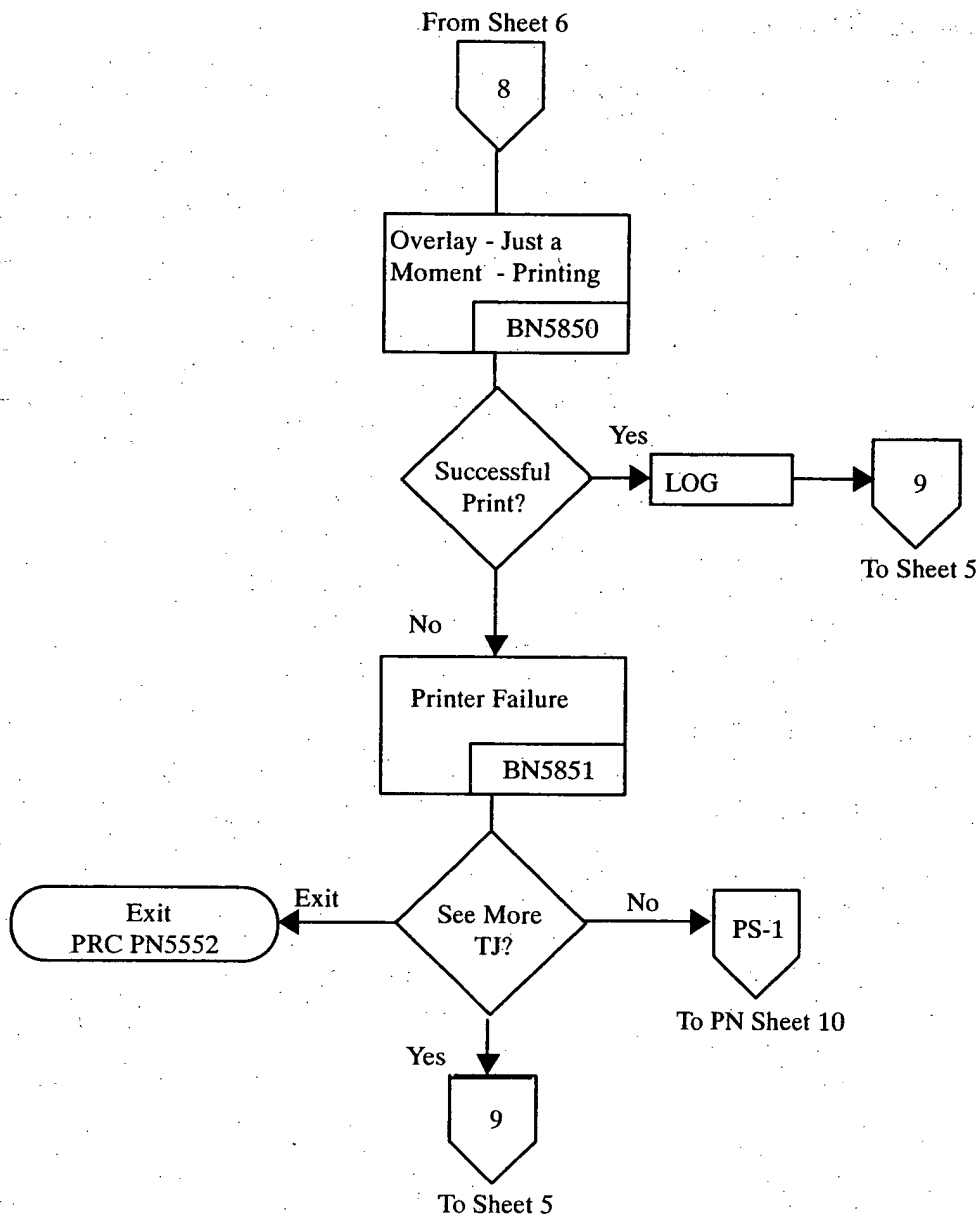


Figure 4-7: Print TJ Screen (Sheet 7 of 7)

4.4 Special Tables

This section shows the tables for the Balance Inquiry application.

Table 4-1. Recent Activity Screens

Which Page of TJ	Printer Status	Screen	
		No.	Name
Only	Down or Just Printed	BN5840	Here Is Your Recent Activity - No Print
Only	Up	BN5841	Here Is Your Recent Activity - With Print
Most Recent	Down or Just Printed	BN5842	Here is Your First Page of TJ Activity - No Print
Most Recent	Up	BN5843	Here is Your First Page of TJ Activity - With Print
Earlier/Later	Down or Just Printed	BN5844	Here is Your Next Page of TJ Activity - No Print
Earlier/Later	Up	BN5846	Here is Your Next Page of TJ Activity - With Print
Earliest	Down or Just Printed	BN5845	Here is Your Last Page of TJ Activity - No Print
Earliest	Up	BN5847	Here is Your Last Page of TJ Activity - With Print
No Activity	Up or Down	BN5848	There is No Recent Activity

Note

After a successful transaction journal print, go to the transaction journal screen that displays the same TJ data without the print button. After an unsuccessful transaction journal print, when the customer chooses to see more activity, go to the TJ screen that displays the same TJ data without the print button.

Table 4-2. TJ Transaction Description Codes

When using Message ID 4502 (Transaction Journal Inquiry), a Transaction Description Code may be sent back as part of the Transaction Journal Table, instead of a Transaction Description.

If a Transaction Description Code is returned, the TJ detail will always be in the session language. If Transaction Descriptions are returned, then the detail will be in the language sent. Since the extensions can only be sent as text, they cannot be translated into pictographic characters.

Up to two lines of text per transaction item are supported. The Transaction Description and the extension will be concatenated and put on one line when possible. If they cannot fit on one line, then the extension will be moved in its entirety to the second line.

The Transaction Descriptor Code Numbers and the English language text that each corresponds to are shown in the table shown below. For non-pictographic languages, a maximum of 25 characters is allowed for the Descriptor Text. More information regarding how TJ screens are built is found in PRC BN5861.

Code Number	Descriptor Text X(25)	Code Number	Descriptor Text X(25)
001	Deposit	015	Payment To Diners Card
002	Got Cash	016	Payment To Credit
003	Cash Advance	017	Payment From
004	Credit Cash Advance	018	Pay From Checking/Current
005	Check	019	Payment From Savings
006	Purchase	020	Payment From Money Market
007	Credit Purchase	021	Payment From Time Deposit
008	Payment	022	Pay From Savings/Investment
009	Payment To	023	Pay From Line of Credit
010	Payment To Line of Credit	024	Payment From Visa
011	Payment To Mortgage	025	Payment From MasterCard
012	Payment To Loan	026	Payment From Diners Club
013	Payment To Visa	027	Payment From Credit
014	Payment To MasterCard	028	Transfer To

STR 45133-S

Table 4-2. TJ Transaction Description Codes (cont)

Code Number	Descriptor Text X(25)	Code Number	Descriptor Text X(25)
029	Transfer To Checking/Current	045	Transfer Out
030	Transfer To Savings	046	Other Credit
031	Transfer To Money Market	047	Other Debit
032	Transfer To Time Deposit	048	Return
033	Transfer From	049	Interest Paid
034	Transfer From Checking/Current	050	Interest Charged
035	Transfer From Savings	051	Interest
036	Transfer From Money Market	052	Late Payment Fee
037	Transfer From Time Deposit	053	Service Charge
038	Transfer From Savings/Invest	054	Finance Charge
039	Transfer From Line of Credit	055	Cash Advance Fee
040	Transfer From Visa	056	Annual Fee
041	Transfer From MasterCard	057	Other Fee
042	Transfer From Diners Club	058	Profit
043	Transfer From Credit	059	Markup
044	Transfer In	All Others	Other Transaction

STR 45133-S

STR 44813-S

4.5 Screens

This section shows the screens and standard data elements for the Balance Inquiry application.

Screen BN5801. Which (Two Accounts) - Off-Us

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 | Which may I tell you about?       | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 | +-----+                         | 6
7 | |XXXXXXXX|                         | 7 acct_desc5
8 | +-----+                         | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 | +-----+                         | 12
13 | |XXXXXXXX|                         | 13 acct_desc5
14 | +-----+                         | 14
15 |                                    | 15
16 |                                    | 16
17 |                                    | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc5 (1-2)	O	X(8)	V	Display one of the following based on the inquiry account type supported: 001 - "Checking" 004 - "Savings" 014 - "Credit"

Screen Transition: See Figure 4-1.

Comments: Display in the order: Checking, Savings, Credit.

The list of appropriate Product Type Codes comes from the Transaction Support Specification element of the response Message 4117 for the inquiry transaction.

Messages to/from ESPs: Send FC4501.

STR 48212-S

Screen BN5802. Which (Three Accounts) - Off-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1|                                     | 1
2| Which may I tell you about?       | 2
3|                                     | 3
4|                                     | 4
5| +-----+                         | 5
6| |Checking|                         | 6
7| +-----+                         | 7
8|                                     | 8
9| +-----+                         | 9
10| |Savings|                         | 10
11| +-----+                         | 11
12|                                     | 12
13| +-----+                         | 13
14| |Credit|                         | 14
15| +-----+                         | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Screen Transition: See Figure 4-1.

Comments: The list of appropriate Product Type Codes comes from the Transaction Support Specification element of the response Message 4117 for the inquiry transaction.

Messages to/from ESPs: Send FC4501.

Screen BN5803. Savings Menu - Balance Inquiry

```
111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 | Which may I tell you about?       | 2
3 |                                     | 3
4 | +-----+                         | 4
5 | Savings                           | 5
6 | +-----+                         | 6
7 | +-----+                         | 7
8 | Money Market                       | 8
9 | +-----+                         | 9
10| +-----+                        | 10
11| Time Deposits                       | 11
12| +-----+                         | 12
13| +-----+                         | 13
14| Other                             | 14
15| +-----+                         | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
      +-----+
      |  EXIT  |
      +-----+
```

Screen Transition: See Figure 4-1.

Screen BN5804. Credit Cards Menu - Balance Inquiry

```
1111111111222222222233333333334
1234567890123456789012345678901234567890

+-----+
1|                                     |1
2| Which may I tell you about?       |2
3|                                     |3
4|                                     |4
5| +-----+                         |5
6| |Visa                             |6
7| +-----+                         |7
8|                                     |8
9| +-----+                         |9
10| |Mastercard                      |10
11| +-----+                         |11
12|                                     |12
13| +-----+                         |13
14| |Diners Club                     |14
15| +-----+                         |15
16|                                     |16
17|                                     |17
18|                                     |18
19|                                     |19
20|                                     |20
+-----+
      | EXIT |
+-----+
```

Screen Transition: See Figure 4-1.

Screen BN5805. Credit/Loans Menu - Balance Inquiry

111111111122222222223333333334	
1234567890123456789012345678901234567890	
1	+
2	Which may I tell you about?
3	
4	
5	+
6	Lines of Credit
7	+
8	
9	+
10	Mortgages
11	+
12	
13	+
14	Other Loans
15	+
16	
17	
18	+
19	EXIT
20	+

Screen Transition: See Figure 4-1.

Screen BN5815. Product Detail Base Screen

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | Here is your XXXXXXXXXXXXXXXXXXXX | 1 acct_desc6/punct3
2 | XXXXXXXXXXXXXXXXXXXXXXXXXXXX      | 2 acct_no6/punct4
3 |                                   | 3
4 |                                   | 4
5 |                                   | 5
6 |                                   | 6
7 |                                   | 7
8 |                                   | 8
9 |                                   | 9
10|                                   | 10
11|                                   | 11
12|                                   | 12
13|                                   | 13
14|                                   | 14
15|                                   | 15
16|                                   | 16
17|                                   | 17
18|                                   | 18
19|                                   | 19
20|                                   | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc6	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44648-S

STR 44649-S

Standard Data Elements: Screen BN5815 (cont)

Data Name	I/O	Format	L-R-V	Comments
-----------	-----	--------	-------	----------

For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:

Code	Display
070-072	- "Visa"
073-074	- "MasterCard"
075	- "Diners Club"

Else, if the Card Class Code is Off-Us 10 - Off-Us 13, then display one of following based on the optional Product Type Code element returned in the response to FC4501, if present, or otherwise based on the Product Type Code in the request:

001	- "Checking"
004	- "Savings"
014	- "Credit"

punct3	O	X(1)	V	For ICC Cards 91 and 93, leave blank.
--------	---	------	---	---------------------------------------

For Off-Us cards, display ":".

acct_no6	O	X(22)	V	Display Account Number from Message 4501 Response.
----------	---	-------	---	--

For Off-Us cards, leave blank.

punct4	O	X(1)	V	For ICC Cards 91 and 93, display ":".
--------	---	------	---	---------------------------------------

For Off-Us cards, leave blank.

Screen Transition: See Figure 4-4.

STR 44464-S
STR 45217-S
STR 45144-S
STR 44537-S
STR 44476-S
STR 46726-S

Overlay BN5816.Product Detail Base Screen

111111111122222222223333333334	
1234567890123456789012345678901234567890	
1	1
2	2
3	3
4	4 new_bal3/bal_txt3a
5	5 bal_txt3b (not shown)
6	6 new_bal4/bal_txt4a
7	7 bal_txt4b (not shown)
8	8 new_bal5/bal_txt5a
9	9 bal_txt5b (not shown)
10	10 new_bal6/bal_txt6a
11	11 bal_txt6b (not shown)
12	12 new_bal7/bal_txt7a
13	13 bal_txt7b (not shown)
14	14 new_bal8/bal_txt8a
15	15
16	16
17	17
18	18
19	19
20	20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
new_balN (N=3-8)	O	X(25) / \$	R	Display balances received from Message 4501 in the order that they are shown in Common NO TAG. Format the currencies based on the currency code in the message. When all of the balances received are in the same currency, the currency indicators should appear only on the first line of the first overlay.
bal_txtNa (N=3-8)	O	X(24)	L	See Comments below.

STR 45217-S

STR 45141-S

Standard Data Elements: Overlay BN5816 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
bal_txtMb (M=3-7)	O	X(24)	L	This field is to be used if a second line of text is required to display the complete balance descriptor. If it is not used, then leave it blank and move up the line of text below it, always leaving a blank line of text between each balance/descriptor combination.

Screen Transition: See Figure 4-4.

Comments: This overlay is used in conjunction with Screen BN5815 and Overlays BN5830, BN5831 or BN5832. The number of balances/descriptors shown on this Overlay (5) represents the maximum number of those that will fit on a screen.

Text descriptors to be used on this Overlay are found in Common NO TAG. Additional layout information is found in Common NO TAG.

See Process PRC BN5862 for a description of how the information on this overlay is built.

Overlay BN5830. May I Help You With Something Else

111111111122222222223333333334				
1234567890123456789012345678901234567890				
1				1
2				2
3				3
4				4
5				5
6				6
7				7
8				8
9				9
10				10
11				11
12				12
13				13
14				14
15				15
16	May I help you with something else?			16
17				17
18	+-----+	+-----+	+-----+	18
19	Yes	No	EXIT	19
20	+-----+	+-----+	+-----+	20

Screen Transition: See Figure 4-4.

Overlay BN5831.May I Tell You More

1111111111222222222233333333334		1234567890123456789012345678901234567890	
1			1
2			2
3			3
4			4
5			5
6			6
7			7
8			8
9			9
10			10
11			11
12			12
13			13
14			14
15			15
16	May I tell you more?		16
17			17
18	+-----+	+-----+	+-----+
19	Yes	No	EXIT
20	+-----+	+-----+	+-----+

Screen Transition: See Figure 4-4.

Overlay BN5832. See Recent Activity

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 |                                    | 13
14 |                                    | 14
15 |                                    | 15
16 | May I show you recent activity? | 16
17 |                                    | 17
18 | +-----+      +-----+      +-----+ | 18
19 | | Yes |      | No |      | EXIT | | 19
20 | +-----+      +-----+      +-----+ | 20
+-----+

```

Screen Transition: See Figure 4-4.

Screen BN5840. Here Is Your Recent Activity - No Print

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | Here is recent activity I have for | 1
2 | your XXXXXXXXXXXXXXXXXXXXXXXX | 2 acct_desc12/punct1
3 | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 3 acct_no12/punct2
4 | | 4
5 | | 5
6 | | 6
7 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 7 post_date/tx_typ_txt/TXN_AMT
8 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 8 post_date/tx_typ_txt/TXN_AMT
9 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 9 post_date/tx_typ_txt/TXN_AMT
10 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 10 post_date/tx_typ_txt/TXN_AMT
11 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 11 post_date/tx_typ_txt/TXN_AMT
12 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 post_date/tx_typ_txt/TXN_AMT
13 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 post_date/tx_typ_txt/TXN_AMT
14 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 post_date/tx_typ_txt/TXN_AMT
15 | | 15
16 | | 16
17 | | 17
18 | | 18
19 | | 19
20 | | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc12	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44815-S

Standard Data Elements: Screen BN5840 (cont)

Data Name	I/O	Format	L-R-V	Comments
				<p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:</p> <p>070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"</p> <p>Else, if the Card Class Code is Off-Us 10 - Off-Us 13, then display one of the following based on the optional Product Type Code element returned in the response to FC4502, if present, or otherwise based on the Product Type Code in the request:</p> <p>001 - "Checking" 004 - "Savings" 014 - "Credit"</p>
punct1	O	X(1)	V	<p>For ICC Cards 91 and 93, leave blank.</p> <p>For Off-Us cards, display ":".</p>
acct_no12	O	X(22)	V	<p>Display Account Number from Message 4501 Response.</p> <p>For Off-Us cards, leave blank.</p>
punct2	O	X(1)	V	<p>For ICC Cards 91 and 93, display ":".</p> <p>For Off-Us cards, leave blank.</p>
post_date	O	X(5)	L	<p>Display a preformatted date, if received. Else, format the date received based on the session language as described in Appendix NO TAG.</p>

STR 44464-S
STR 44475-S
STR 45144-S
STR 45345-S
STR 46726-S

Standard Data Elements: Screen BN5840 (cont)

Data Name	I/O	Format	L-R-V	Comments
tx_typ_txt	O	X(45)	L	Display transaction descriptor as described in Procedure PRC BN5861.
TXN_AMT	O	X(19) / Z	R	Display transaction amount as described in Procedure PRC BN5861.

Screen Transition: See Figure 4-5.

Screen BN5841. Here Is Your Recent Activity - With Print

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1| Here is recent activity I have for | 1
2| your XXXXXXXXXXXXXXXXXXXXXXXX | 2 acct_desc12/punct1
3| XXXXXXXXXXXXXXXXXXXXXXXX | 3 acct_no12/punct2
4| | 4
5| | 5
6| | 6
7| XXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 7 post_date/tx_typ_txt/TXN_AMT
8| XXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 8 post_date/tx_typ_txt/TXN_AMT
9| XXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 9 post_date/tx_typ_txt/TXN_AMT
10| XXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 10 post_date/tx_typ_txt/TXN_AMT
11| XXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 11 post_date/tx_typ_txt/TXN_AMT
12| XXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 12 post_date/tx_typ_txt/TXN_AMT
13| XXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 13 post_date/tx_typ_txt/TXN_AMT
14| XXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 14 post_date/tx_typ_txt/TXN_AMT
15| | 15
16| | 16
17| | 17
18| | 18
19| | 19
20| | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc12	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44815-S

Standard Data Elements: Screen BN5841 (cont)

Data Name	I/O	Format	L-R-V	Comments
				<p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:</p> <p>070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"</p> <p>Else, if the Card Class Code is Off-Us 10 - Off-Us 13, then display one of the following based on the optional Product Type Code element returned in the response to FC4502, if present, or otherwise based on the Product Type Code in the request:</p> <p>001 - "Checking" 004 - "Savings" 014 - "Credit"</p>
punct1	O	X(1)	V	<p>For ICC Cards 91 and 93, leave blank.</p> <p>For Off-Us cards, display ":".</p>
acct_no12	O	X(22)	V	<p>Display Account Number from Message 4501 Response.</p> <p>For Off-Us cards, leave blank.</p>
punct2	O	X(1)	V	<p>For ICC Cards 91 and 93, display ":".</p> <p>For Off-Us cards, leave blank.</p>
post_date	O	X(5)	L	<p>Display a preformatted date, if received. Else, format the date received based on the session language as described in Appendix NO TAG.</p>

STR 44464-S
STR 44475-S
STR 45144-S
STR 45345-S
STR 46726-S

Standard Data Elements: Screen BN5841 (cont)

Data Name	I/O	Format	L-R-V	Comments
tx_typ_txt	O	X(45)	L	Display transaction descriptor as described in Procedure PRC BN5861.
TXN_AMT	O	X(19) / Z	R	Display transaction amount as described in Procedure PRC BN5861.

Screen Transition: See Figure 4-5.

Screen BN5842. Here Is Your First Page Of TJ Activity - No Print

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | Here is recent activity I have for          | 1
2 | your XXXXXXXXXXXXXXXXXXXX                  | 2 acct_desc12/punct1
3 | XXXXXXXXXXXXXXXXXXXX                      | 3 acct_no12/punct2
4 | +-----+                                | 4
5 | | MORE |                                | 5
6 | +-----+                                | 6
7 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 7 post_date/tx_typ_txt/TXN_AMT
8 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 8 post_date/tx_typ_txt/TXN_AMT
9 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 9 post_date/tx_typ_txt/TXN_AMT
10 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 10 post_date/tx_typ_txt/TXN_AMT
11 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 11 post_date/tx_typ_txt/TXN_AMT
12 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 post_date/tx_typ_txt/TXN_AMT
13 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 post_date/tx_typ_txt/TXN_AMT
14 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 post_date/tx_typ_txt/TXN_AMT
15 |                                           | 15
16 |                                           | 16
17 |                                           | 17
18 |                                           | 18
19 |                                           | 19
20 |                                           | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc12	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44815-S

Standard Data Elements: Screen BN5842 (cont)

Data Name	I/O	Format	L-R-V	Comments
				<p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:</p> <p>070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"</p> <p>Else, if the Card Class Code is Off-Us 10 - Off-Us 13, then display one of the following based on the optional Product Type Code element returned in the response to FC4502, if present, or otherwise based on the Product Type Code in the request:</p> <p>001 - "Checking" 004 - "Savings" 014 - "Credit"</p>
punct1	O	X(1)	V	<p>For ICC Cards 91 and 93, leave blank.</p> <p>For Off-Us cards, display ":".</p>
acct_no12	O	X(22)	V	<p>Display Account Number from Message 4501 Response.</p> <p>For Off-Us cards, leave blank.</p>
punct2	O	X(1)	V	<p>For ICC Cards 91 and 93, display ":".</p> <p>For Off-Us cards, leave blank.</p>
post_date	O	X(5)	L	<p>Display a preformatted date, if received. Else, format the date received based on the session language as described in Appendix NO TAG.</p>

STR 44464-S
STR 44475-S
STR 45144-S
STR 45345-S
STR 46726-S

Standard Data Elements: Screen BN5842 (cont)

Data Name	I/O	Format	L-R-V	Comments
tx_typ_txt	O	X(45)	L	Display transaction descriptor as described in Procedure PRC BN5861.
TXN_AMT	O	X(19) / Z	R	Display transaction amount as described in Procedure PRC BN5861.

Screen Transition: See Figure 4-5.

Screen BN5843. Here Is Your First Page Of TJ Activity - With Print

```

11111111111222222222233333333334
123456789012345678901234567890
+-----+
1| Here is recent activity I have for      | 1
2| your XXXXXXXXXXXXXXXXXXXXXXXX          | 2 acct_desc12/punct1
3| XXXXXXXXXXXXXXXXXXXXXXXXXXXX           | 3 acct_no12/punct2
4| +-----+                             | 4
5| | MORE |                             | 5
6| +-----+                             | 6
7| XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX      | 7 post_date/tx_typ_txt/TXN_AMT
8| XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX      | 8 post_date/tx_typ_txt/TXN_AMT
9| XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX      | 9 post_date/tx_typ_txt/TXN_AMT
10| XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX     | 10 post_date/tx_typ_txt/TXN_AMT
11| XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX     | 11 post_date/tx_typ_txt/TXN_AMT
12| XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX     | 12 post_date/tx_typ_txt/TXN_AMT
13| XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX     | 13 post_date/tx_typ_txt/TXN_AMT
14| XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX     | 14 post_date/tx_typ_txt/TXN_AMT
15|                                         | 15
16|                                         | 16
17|                                         | 17
18|           +-----+   +-----+   +-----+ | 18
19|           | PRINT |   | DONE |   | EXIT | | 19
20|           +-----+   +-----+   +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc12	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44815-S

Standard Data Elements: Screen BN5843 (cont)

Data Name	I/O	Format	L-R-V	Comments
				<p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:</p> <p>070-072 - "Visa"</p> <p>073-074 - "MasterCard"</p> <p>075 - "Diners Club"</p> <p>Else, if the Card Class Code is Off-Us 10 - Off-Us 13, then display one of the following based on the optional Product Type Code element returned in the response to FC4502, if present, or otherwise based on the Product Type Code in the request:</p> <p>001 - "Checking"</p> <p>004 - "Savings"</p> <p>014 - "Credit"</p>
punct1	O	X(1)	V	For ICC Cards 91 and 93, leave blank.
acct_no12	O	X(22)	V	For Off-Us cards, display ":".
				Display Account Number from Message 4501 Response.
punct2	O	X(1)	V	For Off-Us cards, leave blank.
				For ICC Cards 91 and 93, display ":".
post_date	O	X(5)	L	For Off-Us cards, leave blank.
				Display a preformatted date, if received. Else, format the date received based on the session language as described in Appendix NO TAG.

STR 44464-S
 STR 44475-S
 STR 45144-S
 STR 45345-S
 STR 46726-S

Standard Data Elements: Screen BN5843 (cont)

Data Name	I/O	Format	L-R-V	Comments
tx_typ_txt	O	X(45)	L	Display transaction descriptor as described in Procedure PRC BN5861.
TXN_AMT	O	X(19) / Z	R	Display transaction amount as described in Procedure PRC BN5861.

Screen Transition: See Figure 4-5.

Screen BN5844. Here Is Your Next Page Of TJ Activity - No Print

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | Here is recent activity I have for | 1
2 | your XXXXXXXXXXXXXXXXXXXX | 2 acct_desc12/punct1
3 | XXXXXXXXXXXXXXXXXXXX | 3 acct_no12/punct2
4 | +-----+ | 4
5 | | MORE | | 5
6 | +-----+ | 6
7 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 7 post_date/tx_typ_txt/TXN_AMT
8 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 8 post_date/tx_typ_txt/TXN_AMT
9 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 9 post_date/tx_typ_txt/TXN_AMT
10 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 10 post_date/tx_typ_txt/TXN_AMT
11 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 11 post_date/tx_typ_txt/TXN_AMT
12 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 post_date/tx_typ_txt/TXN_AMT
13 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 post_date/tx_typ_txt/TXN_AMT
14 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 post_date/tx_typ_txt/TXN_AMT
15 | +-----+ | 15
16 | | MORE | | 16
17 | +-----+ | 17
18 | | | +-----+ +-----+ | 18
19 | | | DONE | EXIT | | 19
20 | | | +-----+ +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc12	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44815-S

Standard Data Elements: Screen BN5844 (cont)

Data Name	I/O	Format	L-R-V	Comments
				<p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:</p> <p>070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"</p> <p>Else, if the Card Class Code is Off-Us 10 - Off-Us 13, then display one of the following based on the optional Product Type Code element returned in the response to FC4502, if present, or otherwise based on the Product Type Code in the request:</p> <p>001 - "Checking" 004 - "Savings" 014 - "Credit"</p>
punct1	O	X(1)	V	<p>For ICC Cards 91 and 93, leave blank.</p> <p>For Off-Us cards, display ":".</p>
acct_no12	O	X(22)	V	<p>Display Account Number from Message 4501 Response.</p> <p>For Off-Us cards, leave blank.</p>
punct2	O	X(1)	V	<p>For ICC Cards 91 and 93, display ":".</p> <p>For Off-Us cards, leave blank.</p>
post_date	O	X(5)	L	<p>Display a preformatted date, if received. Else, format the date received based on the session language as described in Appendix NO TAG.</p>

STR 44464-S
STR 44475-S
STR 45144-S
STR 45345-S
STR 46726-S

Standard Data Elements: Screen BN5844 (cont)

Data Name	I/O	Format	L-R-V	Comments
tx_typ_txt	O	X(45)	L	Display transaction descriptor as described in Procedure PRC BN5861.
TXN_AMT	O	X(19)/Z	R	Display transaction amount as described in Procedure PRC BN5861.

Screen Transition: See Figure 4-6.

Screen BN5845. Here Is Your Last Page Of TJ Activity - No Print

```

11111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | Here is recent activity I have for | 1
2 | your XXXXXXXXXXXXXXXXXXXXXXXX | 2 acct_desc12/punct1
3 | XXXXXXXXXXXXXXXXXXXXXXXX | 3 acct_no12/punct2
4 | | 4
5 | | 5
6 | | 6
7 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 7 post_date/tx_typ_txt/TXN_AMT
8 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 8 post_date/tx_typ_txt/TXN_AMT
9 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 9 post_date/tx_typ_txt/TXN_AMT
10 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 10 post_date/tx_typ_txt/TXN_AMT
11 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 11 post_date/tx_typ_txt/TXN_AMT
12 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 post_date/tx_typ_txt/TXN_AMT
13 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 post_date/tx_typ_txt/TXN_AMT
14 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 post_date/tx_typ_txt/TXN_AMT
15 | +-----+ | 15
16 | | MORE | | 16
17 | +-----+ | 17
18 | | +-----+ +-----+ | 18
19 | | | DONE | | EXIT | | 19
20 | | +-----+ +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc12	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44815-S

Standard Data Elements: Screen BN5845 (cont)

Data Name	I/O	Format	L-R-V	Comments
				<p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:</p> <p>070-072 - "Visa"</p> <p>073-074 - "MasterCard"</p> <p>075 - "Diners Club"</p> <p>Else, if the Card Class Code is Off-Us 10 - Off-Us 13, then display one of the following based on the optional Product Type Code element returned in the response to FC4502, if present, or otherwise based on the Product Type Code in the request:</p> <p>001 - "Checking"</p> <p>004 - "Savings"</p> <p>014 - "Credit"</p>
punct1	O	X(1)	V	For ICC Cards 91 and 93, leave blank.
				For Off-Us cards, display ":".
acct_no12	O	X(22)	V	Display Account Number from Message 4501 Response.
				For Off-Us cards, leave blank.
punct2	O	X(1)	V	For ICC Cards 91 and 93, display ":".
				For Off-Us cards, leave blank.
post_date	O	X(5)	L	Display a preformatted date, if received. Else, format the date received based on the session language as described in Appendix NO TAG.

STR 44464-S
 STR 44475-S
 STR 45144-S
 STR 45345-S
 STR 46726-S

Standard Data Elements: Screen BN5845 (cont)

Data Name	I/O	Format	L-R-V	Comments
tx_typ_txt	O	X(45)	L	Display transaction descriptor as described in Procedure PRC BN5861.
TXN_AMT	O	X(19) / Z	R	Display transaction amount as described in Procedure PRC BN5861.

Screen Transition: See Figure 4-6.

Screen BN5846. Here Is Your Next Page Of TJ Activity - With Print

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | Here is recent activity I have for | 1
2 | your XXXXXXXXXXXXXXXXXXXXXXXX | 2 acct_desc12/punct1
3 | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 3 acct_no12/punct2
4 | +-----+ | 4
5 | | MORE | | 5
6 | +-----+ | 6
7 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 7 post_date/tx_typ_txt/TXN_AMT
8 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 8 post_date/tx_typ_txt/TXN_AMT
9 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 9 post_date/tx_typ_txt/TXN_AMT
10 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 10 post_date/tx_typ_txt/TXN_AMT
11 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 11 post_date/tx_typ_txt/TXN_AMT
12 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 post_date/tx_typ_txt/TXN_AMT
13 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 post_date/tx_typ_txt/TXN_AMT
14 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 post_date/tx_typ_txt/TXN_AMT
15 | +-----+ | 15
16 | | MORE | | 16
17 | +-----+ | 17
18 | | | | 18
19 | | PRINT | | DONE | | EXIT | | 19
20 | +-----+ | +-----+ | +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc12	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44815-S

Standard Data Elements: Screen BN5846 (cont)

Data Name	I/O	Format	L-R-V	Comments
				<p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display:</p> <p>070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"</p> <p>Else, if the Card Class Code is Off-Us 10 - Off-Us 13, then display one of the following based on the optional Product Type Code element returned in the response to FC4502, if present, or otherwise based on the Product Type Code in the request:</p> <p>001 - "Checking" 004 - "Savings" 014 - "Credit"</p>
punct1	O	X(1)	V	<p>For ICC Cards 91 and 93, leave blank.</p> <p>For Off-Us cards, display ":".</p>
acct_no12	O	X(22)	V	<p>Display Account Number from Message 4501 Response.</p> <p>For Off-Us cards, leave blank.</p>
punct2	O	X(1)	V	<p>For ICC Cards 91 and 93, display ":".</p> <p>For Off-Us cards, leave blank.</p>
post_date	O	X(5)	L	<p>Display a preformatted date, if received. Else, format the date received based on the session language as described in Appendix NO TAG.</p>

STR 44464-S
STR 44475-S
STR 45144-S
STR 45345-S
STR 46726-S

Standard Data Elements: Screen BN5846 (cont)

Data Name	I/O	Format	L-R-V	Comments
tx_typ_txt	O	X(45)	L	Display transaction descriptor as described in Procedure PRC BN5861.
TXN_AMT	O	X(19) / Z	R	Display transaction amount as described in Procedure PRC BN5861.

Screen Transition: See Figure 4-6.

Screen BN5847. Here Is Your Last Page Of TJ Activity - With Print

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | Here is recent activity I have for | 1
2 | your XXXXXXXXXXXXXXXXXXXXXXXX | 2 acct_desc12/punct1
3 | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 3 acct_no12/punct2
4 | | 4
5 | | 5
6 | | 6
7 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 7 post_date/tx_typ_txt/TXN_AMT
8 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 8 post_date/tx_typ_txt/TXN_AMT
9 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 9 post_date/tx_typ_txt/TXN_AMT
10 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 10 post_date/tx_typ_txt/TXN_AMT
11 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 11 post_date/tx_typ_txt/TXN_AMT
12 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 post_date/tx_typ_txt/TXN_AMT
13 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 post_date/tx_typ_txt/TXN_AMT
14 | XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 post_date/tx_typ_txt/TXN_AMT
15 | +-----+ | 15
16 | | MORE | | 16
17 | +-----+ | 17
18 | | +-----+ | +-----+ | +-----+ | 18
19 | | PRINT | | DONE | | EXIT | | 19
20 | | +-----+ | +-----+ | +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc12	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44815-S

Standard Data Elements: Screen BN5847 (cont)

Data Name	I/O	Format	L-R-V	Comments
				For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display: 070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"
				Else, if the Card Class Code is Off-Us 10 - Off-Us 13, then display one of the following based on the optional Product Type Code element returned in the response to FC4502, if present, or otherwise based on the Product Type Code in the request: 001 - "Checking" 004 - "Savings" 014 - "Credit"
punct1	O	X(1)	V	For ICC Cards 91 and 93, leave blank. For Off-Us cards, display ":",
acct_no12	O	X(22)	V	Display Account Number from Message 4501 Response. For Off-Us cards, leave blank.
punct2	O	X(1)	V	For ICC Cards 91 and 93, display ":", For Off-Us cards, leave blank.
post_date	O	X(5)	L	Display a preformatted date, if received. Else, format the date received based on the session language as described in Appendix NO TAG.

STR 44464-S
STR 44475-S
STR 45144-S
STR 45345-S
STR 46726-S

Standard Data Elements: Screen BN5847 (cont)

Data Name	I/O	Format	L-R-V	Comments
tx_typ_txt	O	X(45)	L	Display transaction descriptor as described in Procedure PRC BN5861.
TXN_AMT	O	X(19) / Z	R	Display transaction amount as described in Procedure PRC BN5861.

Screen Transition: See Figure 4-6.

Screen BN5848. There Is No Recent Activity

```

111111111122222222233333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 | I'm sorry. I don't see any recent | 7
8 | activity in your XXXXXXXXXXXXXXXX | 8 acct_desc13/period1
9 | XXXXXXXXXXXXXXXXXXXXXXXX         | 9 acct_no13/period2
10|                                     | 10
11|                                     | 11
12|                                     | 12
13| May I help you with something else? | 13
14|                                     | 14
15| +-----+           +-----+    | 15
16| | Yes  |           | No  |      | 16
17| +-----+           +-----+    | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc13	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, display one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44815-S
STR 46586-S
STR 46726-S

Standard Data Elements: Screen BN5848 (cont)

Data Name	I/O	Format	L-R-V	Comments
				For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to display: 070-072 - "Visa" 073-074 - "MasterCard" 075 - "Diners Club"
				Else, if the Card Class Code is Off-Us 10 - Off-Us 13, then display one of the following based on the optional Product Type Code element returned in the response to FC4502, if present, or otherwise based on the Product Type Code in the request: 001 - "Checking" 004 - "Savings" 014 - "Credit"
period1	O	X(1)	V	For ICC Cards 91 and 93, leave blank. For Off-Us cards, display ".".
acct_no13	O	X(22)	V	Display Account Number from Message 4502 Response. For Off-Us cards, leave blank.
period2	O	X(1)	V	For ICC Cards 91 and 93, display ".". For Off-Us cards, leave blank.

Screen Transition: See Figure 4-6.

STR 44464-S
STR 44475-S
STR 45144-S
STR 46726-S

Overlay BN5850. Just A Moment - Printing TJ

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

Just a moment, please.

I'm printing it...

Screen Transition: See Figure 4-7.

STR 46729-S

96-0037-00

CONFIDENTIAL
(SEE NOTICE ON TITLE PAGE)

4-54

CONFIDENTIAL
(SEE NOTICE ON TITLE PAGE)

Screen BN5852. TJ Not Available

1111111112222222223333333334
1234567890123456789012345678901234567890

```

1 | 1
2 | 2
3 | 3
4 | 4
5 | 5
6 | 6
7 | I'm sorry. I can't show you recent
8 | activity right now.
9 |
10 | 10
11 | 11
12 | 12
13 | May I help you with something else?
14 |
15 | +-----+ +-----+
16 | | Yes | | No |
17 | +-----+ +-----+
18 |
19 | | EXIT |
20 | +-----+

```

Screen Transition: See Figure 4-5.

4.6 Processes

This section shows the processes defined for Balance Inquiry application.



PRC BN5860. Check TJ Availability

Global ICC allows customers to view TJ activity for any product that supports it - for both ICC cards and Off-Us cards. Although no Off-Us network currently supports TJ activity, this functionality is being included in this offering for possible future use.

For all cards, if a profile message is sent, the application will check for a TJ flag in Profile Message 4604.

The decision to show TJ is based on the returned TJ Support Indicator (ID 7362) from Message 4501 response, if it is available. If it is not available, it is based this on the TJ Support Indicator (ID 7362) from the Profile (Message 4604) response.

Screen Transition: See Figure 4-4.

PRC BN5861. Transaction Journal (TJ)

Summary: This procedure defines how the TJ information received in Message 4502 should be processed to present the TJ listings on screens BN5840-BN5847.

Up to 200 TJ items can be processed for each product. Since Message 4502 supports only 50 rows in the Transaction Journal Table, multiple requests can be made to the FEP until this limit is met.

The Transaction Journal Table from Message 4502 may contain either or both Transaction Description (7226) or Transaction Description Code (7291). If both are returned, the Transaction Description (7226) is used. In either case, the Transaction Description Extension (7292) may be returned. (A listing of the valid codes can be found in Table 4-2.) The Description Text and the Extension Text will be put on a single line on the TJ screen whenever possible, as described below. Two lines of text per TJ item is the maximum supported.

The TJ items received can be processed to build one TJ "page" (that is, screen) at a time. The items fill in from the top line to the last, with the first item received at the bottom of the list. If only one item is received, it is placed on the top line of the TJ listing. No assumption is made as to which of the items received are the most recent, nor is any attempt be made to "sort" the items by date order.

Each TJ item may take up to two lines. Following is a description of how it is determined whether one or two lines are needed:

Here is a sample TJ entry layout:

```
line A | xxxxx xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx |
line B | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx |
```

A TJ entry will use only line A if either of these criteria are met:

- No Transaction Description Extension is received.
- The combined lengths of the Transaction Description, Transaction Description Extension and one blank space do not exceed 25 characters.

Otherwise, two lines of text will be used.

Below is a more detailed description of the logic used to build each entry:

1. Determine the length of the item received for the TXN_AMT. Subtract this length plus one leading blank space from a total of 45 characters to determine the total possible length that the variable tx_typ_txt can use for display. The TXN_AMT should always be displayed right justified on line A of a TJ entry.
2. If the length of the Descriptor Text \leq 25 characters, then:
 - If there is no Extension Text received, display the result on line A.
 - If Extension Text is received, calculate the length of the Descriptor Text + 1 space + the Extension Text.
 - If the result is \leq 25 characters, concatenate the Descriptor, the space and Extension Text and display the result on line A.
 - If the result is $>$ 25 characters, determine the available space on line A as described above. Display as much of the Descriptor Text as possible on line A and truncate the remaining text. The result should leave at least one space between the Descriptor Text and the TXN_AMT. Display the Extension Text on line B up to a length of 40 characters. If more characters are received, the Extension Text should be truncated as well.

Else, if the length of the Descriptor Text $>$ 25 characters, then:

- Determine the available space on line A as described above. Display as much of the Descriptor Text as possible on line A and truncate the remaining text. The result should leave at least one space between the Descriptor Text and the TXN_AMT.
- If Extension Text is received, display it on line B up to a length of 40 characters. If more characters are received, the Extension Text should be truncated.

Screen Transition: See Figure 4-5 and Figure 4-6.

PRC BN5862. Balance Inquiry Balance Display

This procedure defines how the Balance and related Descriptor information received in Message 4501 should be processed to present a given product's balances on Overlay BN5816.

Depending on the number of balances received, one or more screens may need to be presented in order to display them. Because there is no requirement as to the number of balances that must display for each product type, the application allows as many balances as are received to display, provided they are in the listing shown in NO TAG.

For the same reason, the balance screens are built one at a time, starting at the top of the "output" window. Each balance and descriptor should have a single blank line separating it from the balances listed above and below it. Even if only one balance is to be displayed, it appears at the top of this "output" window. The "output" window is displayed as a recap box that shrinks and expands to fit the current number of display lines.

Balance Inquiry screens, unlike TJ Activity screens, do not support preformatted dates. Date formatting is determined by the session language, as described in Appendix NO TAG.

Screen Transition: See Figure 4-4.

STR 45143-S

Chapter 5

Transfer

The Transfer application provides the ability to both transfer funds among, and to make payments to and from, the products linked to a single card.

This chapter covers the following:

- Supported ESP Messages (Section 5.1)
- Processing Overview (Section 5.2)
- Flowcharts (Section 5.3)
- Special Tables (Section 5.4)
- Screens (Section 5.5)
- Processes (Section 5.6)

5.1 Supported ESP Messages

The Transfer application uses the following external service provider messages:

Message ID	Message Description
4402	Transfer Authorization Request
4403	Transfer Authorization Reversal Request
4604/X11FC*	Profile with Balance/Citicard Summary

NOTE

The Profile message is sent in Product Select and therefore does not appear in the flowcharts of this chapter. The responses, however, are handled throughout this chapter and therefore the message is included above.

The SFS Function Codes are determined from the Message ID and the SFS Function Code offset from Message 4117. For a Transfer Authorization Request, the ICC SFS Function Code is 4442; the Off-Us Generic SFS Function Code is 4462. For a Transfer Authorization Reversal, the ICC SFS Function Code is 4443; the Off-Us Generic SFS Function Code is 4463.

5.2 Processing Overview

The following provides the Transfer processing overview:

For Card Class 91:

- Determine what type of transfer or payment the customer wants to make for the CA Category chosen in Product Select.
- Determine the destination Product Category for the transfer or payment.
- Verify the customer profile received from Message 4604.
- Display the Account Resolver from which the customer chooses the destination account for transfer or payment.
- For a transfer, display an appropriate transfer amount entry keypad based on the destination account currency type (Currency_Cde field from FC4117).

For a payment, build a Balance Inquiry Message FC4501. Next, build a selected two or three payment button menu to allow customer to choose from pre-determined payment amounts. If customer chooses to pay a different amount, then display entry keypad as described above for a transfer.

- Enter amount and check for valid format.
- Determine source Product Category for transfer or payment, using Account Resolver to determine the destination account, if necessary.
- If the source account and the destination account are in the same currency, ask the customer to confirm the transfer input. If the customer accepts, continue and if the customer declines, display error screen.
- If this is not the first transaction of the session, enter the PIN again.
- Send the Transfer request.
- If the source account and the destination account are not in the same currency, then, if *both* equivalent transaction amounts were received, display the confirm transfer screen asking if the customer wants to continue. If the customer declines, send FC4403 (Transfer Reversal). If the customer accepts, continue.
- If the transfer was successful:
 - Queue the TN Transaction Record.
 - Display an appropriate balance screen based on what new balance data was returned.
- If the transfer was not successful, display an appropriate transfer error screen or one of the standard error screens.

For Card Classes Off-Us 10 - Off-Us 13:

- Determine what transfer option the customer can be offered -- Checking to Savings, Savings to Checking, or both. If both, ask the customer to choose one. If only one option, set the source and destination accounts.
- If the currency code in the Card Prefix Table (CPT) is found, use it to set the transaction currency.

If the currency code is not found (that is, it is "XXX" in the CPT), send Message 4501. If the response is good, set the transaction currency to the Currency Code of the destination account. If the response is not good, display the appropriate error screens.

- Display an appropriate transfer amount entry keypad based on the destination account currency type.
- Enter amount and check for valid format.
- If the source account and the destination account are in the same currency, ask the customer to confirm the transfer input. If the customer accepts, continue. If the customer declines, display error screen.
- If this is not the first transaction of the session, enter the PIN again.
- Send the Transfer request.
- If the source account and the destination account are not in the same currency, then, if *both* equivalent transaction amounts were received, display the confirm transfer screen asking if the customer wants to continue. If the customer declines, send FC4403 (Transfer Reversal). If the customer accepts, continue.
- If the transfer was successful:
 - Queue the TN Transaction Record.
 - Display an appropriate balance screen based on what new balance data was returned.
- If the transfer was not successful, display an appropriate transfer error screen or one of the standard error screens.

5.3 Flowcharts

This section shows the flowcharts for the Transfer application.

Unless otherwise specified, pressing the **EXIT** key on any screen activates Procedure PRC PN5552 in the Product Select Application.

Similarly, a timeout transitions to the standard "Timeout" routine in Common Screens and Procedures.

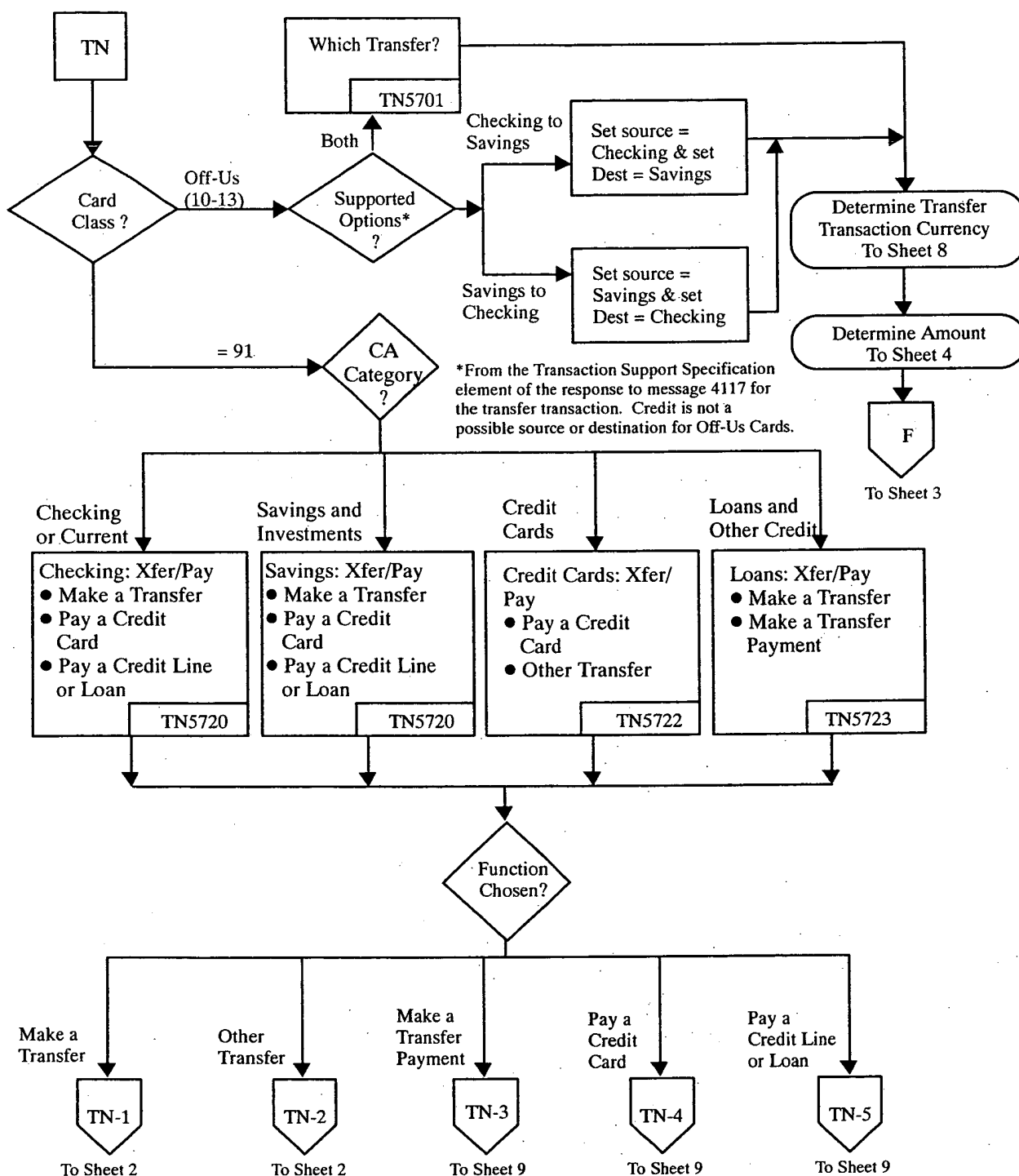


Figure 5-1. Transfer and Payment Functional Menus (Sheet 1 of 10)

STR 44416-S

Transfer

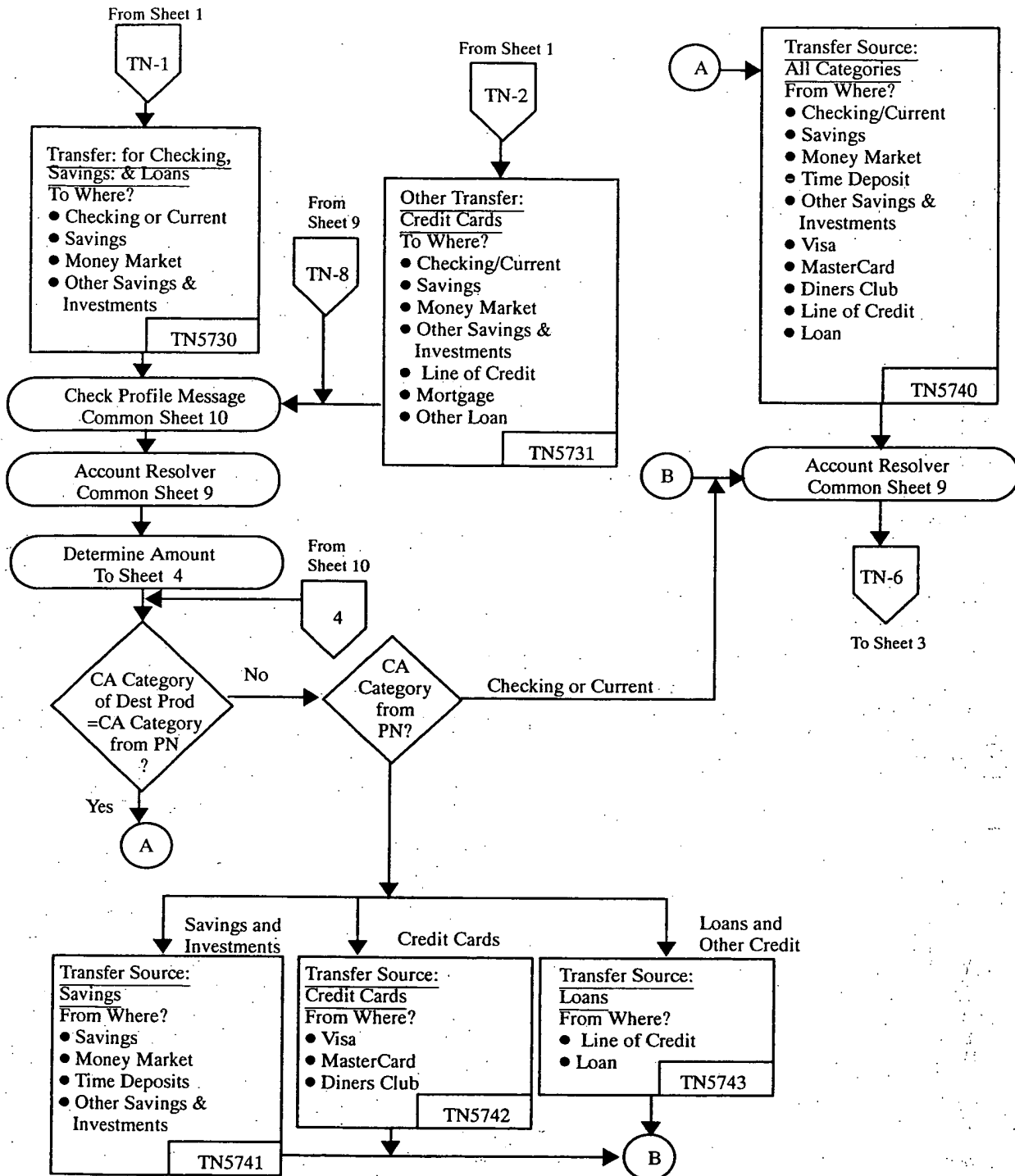


Figure 5-2. Specify Transfer Destination, Amount and Source Category (Sheet 2 of 10)

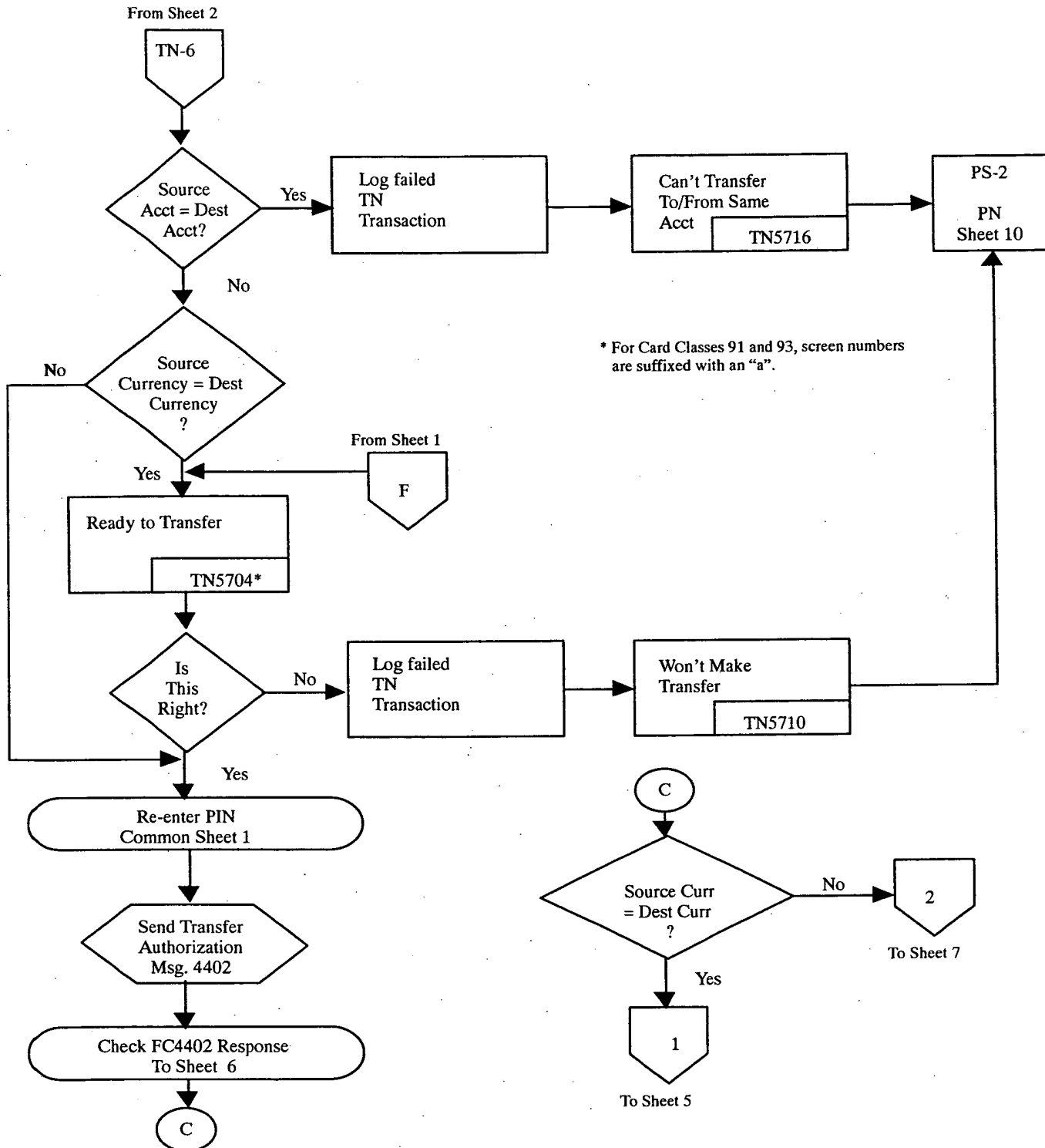


Figure 5-3. Verify and Present "Ready to Transfer" (Sheet 3 of 10)

STR 45089-S

Transfer

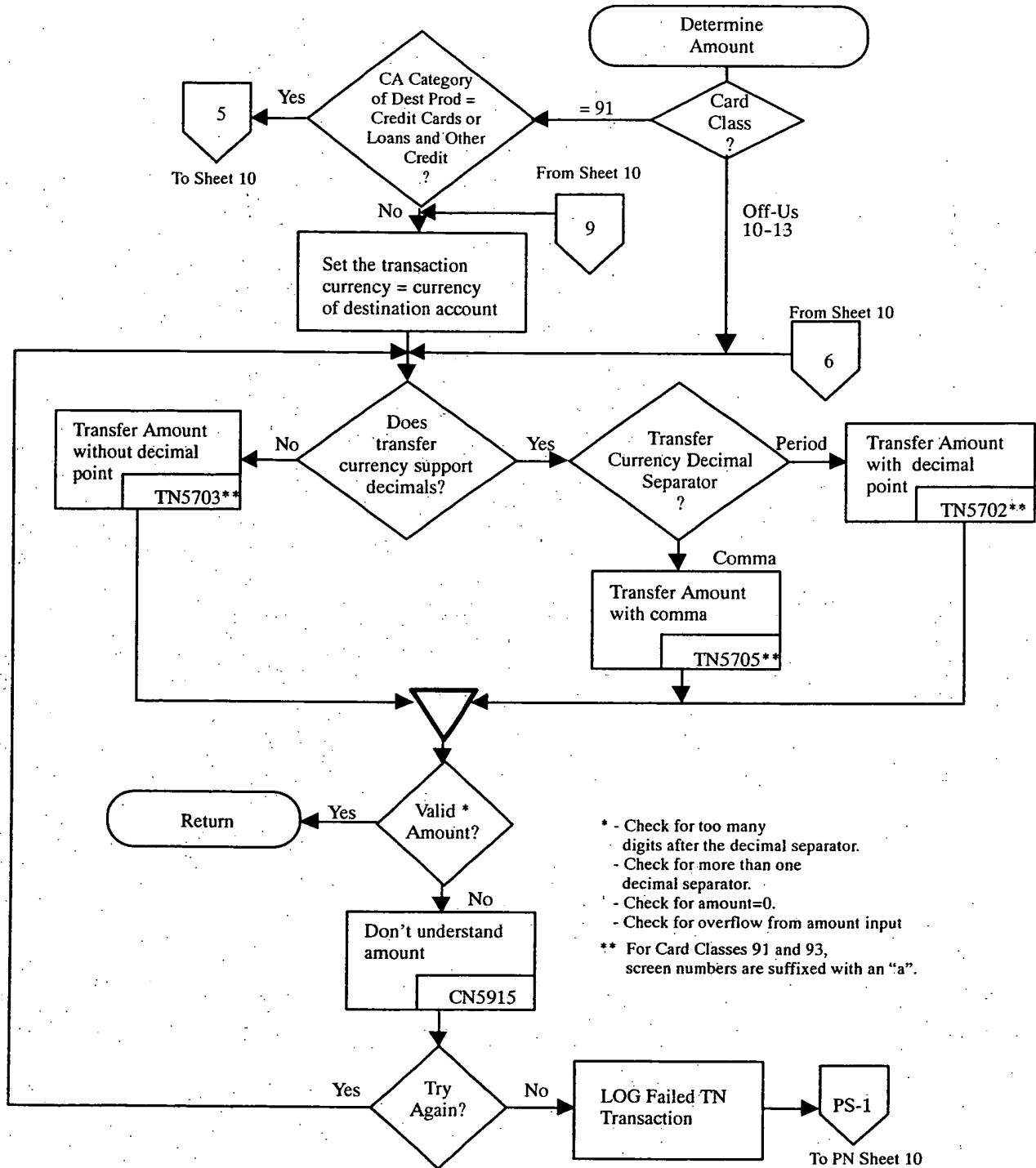
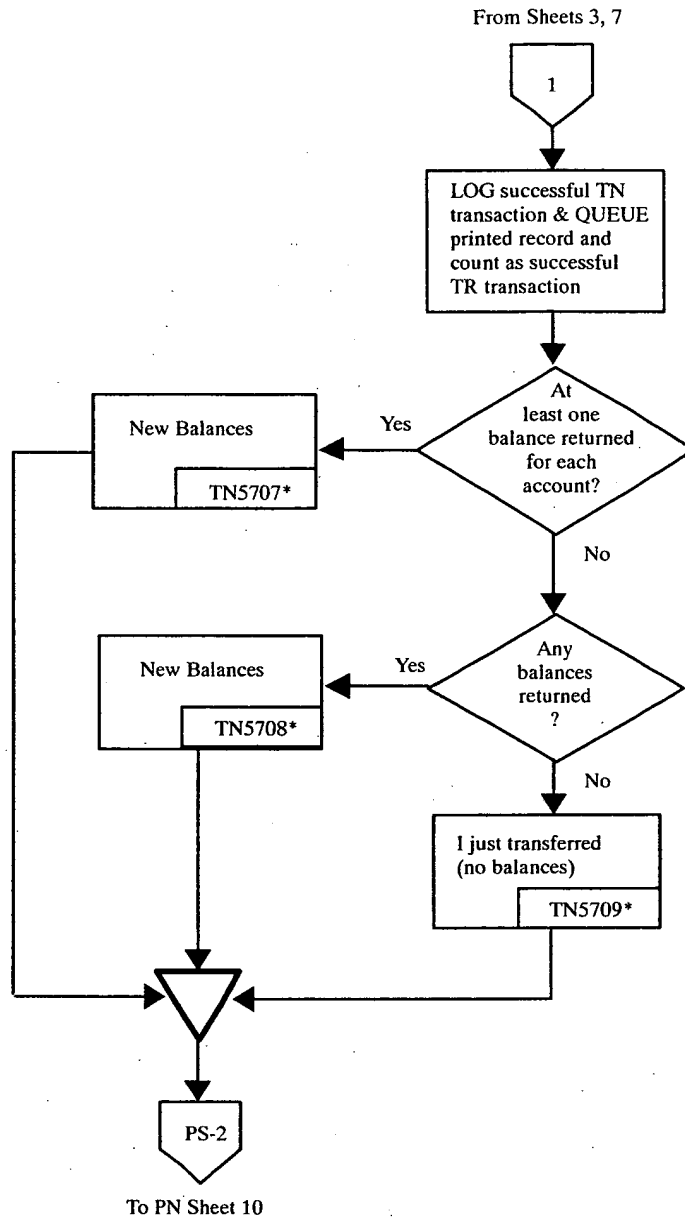


Figure 5-4. Determine Transfer Amount (Sheet 4 of 10)

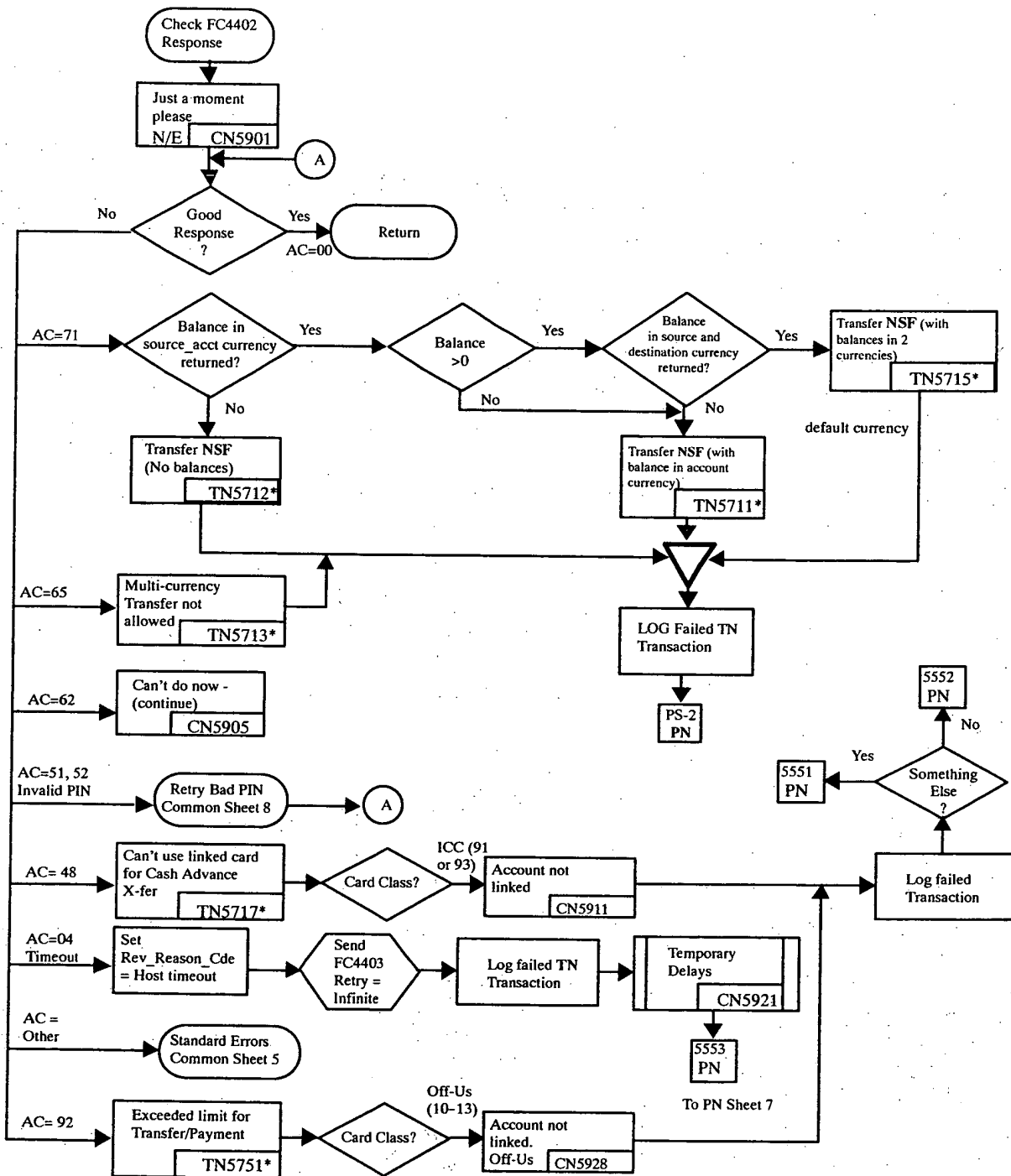
STR 44417-S
STR 45089-S



* For Card Classes 91 and 93, screen numbers are suffixed with an "a".

Figure 5-5. Transfer Completed - Resulting Balances (Sheet 5 of 10)

Transfer



* For Card Classes 91 and 93, screen numbers are suffixed with an "a".

Figure 5-6. Check FC4402 Response (Sheet 6 of 10)

STR 44803-S
STR 45507-S
STR 48213-S

STR 45089-S
STR 45207-S

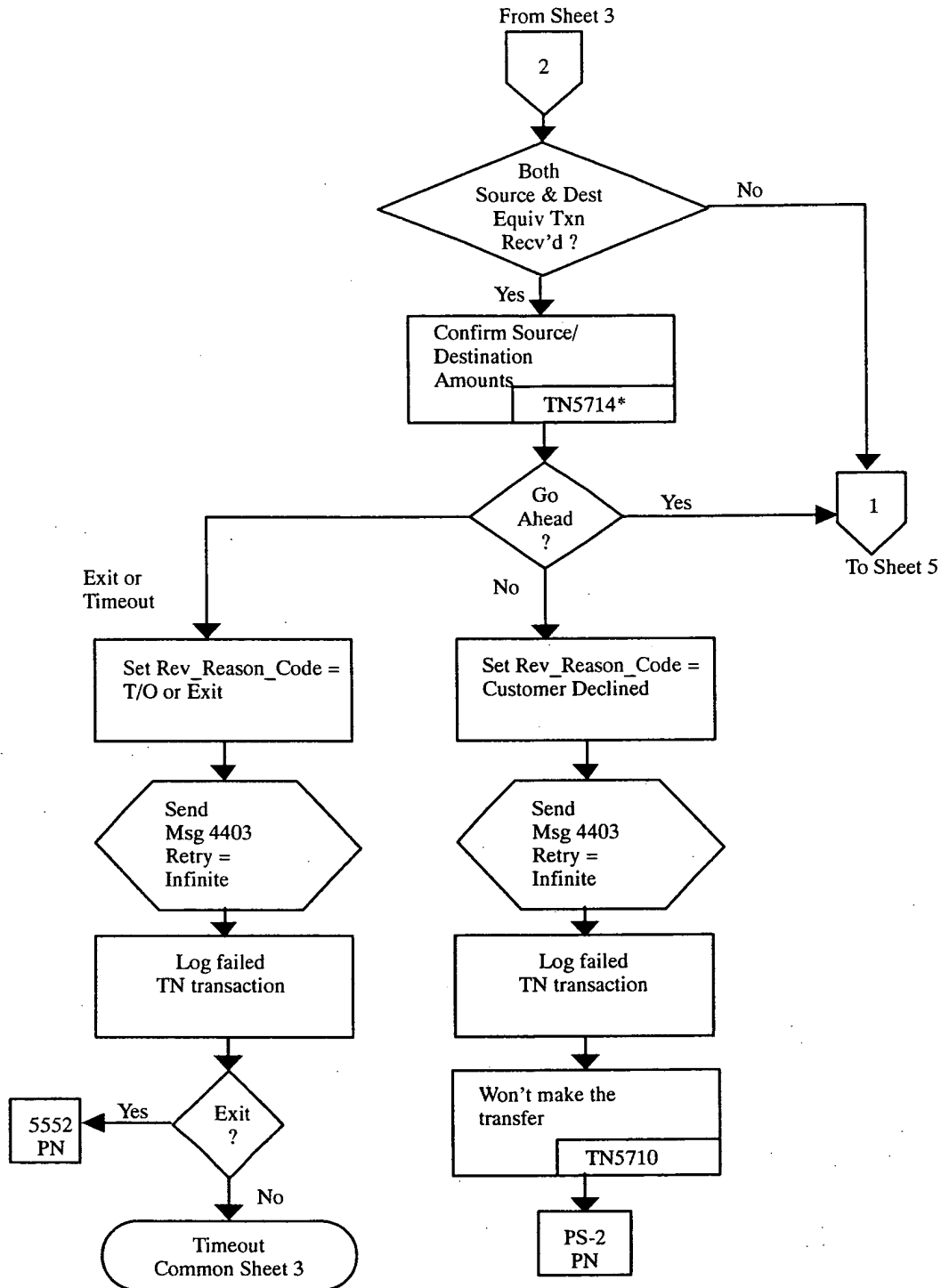


Figure 5-7. Transfer FX Confirmation (Sheet 7 of 10)

STR 45089-S

Transfer

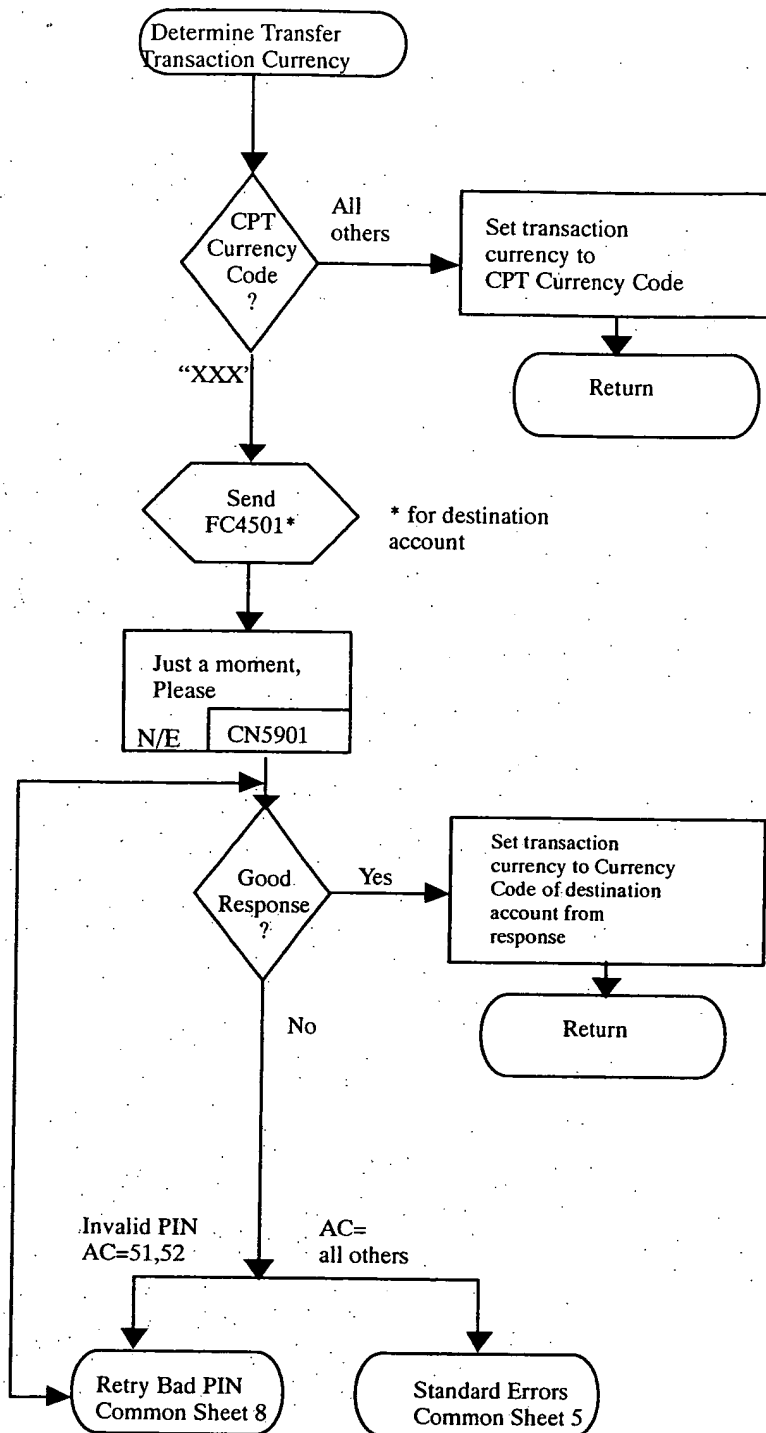


Figure 5-8. Determine Transfer Transaction Currency - Off-Us (Sheet 8 of 10)

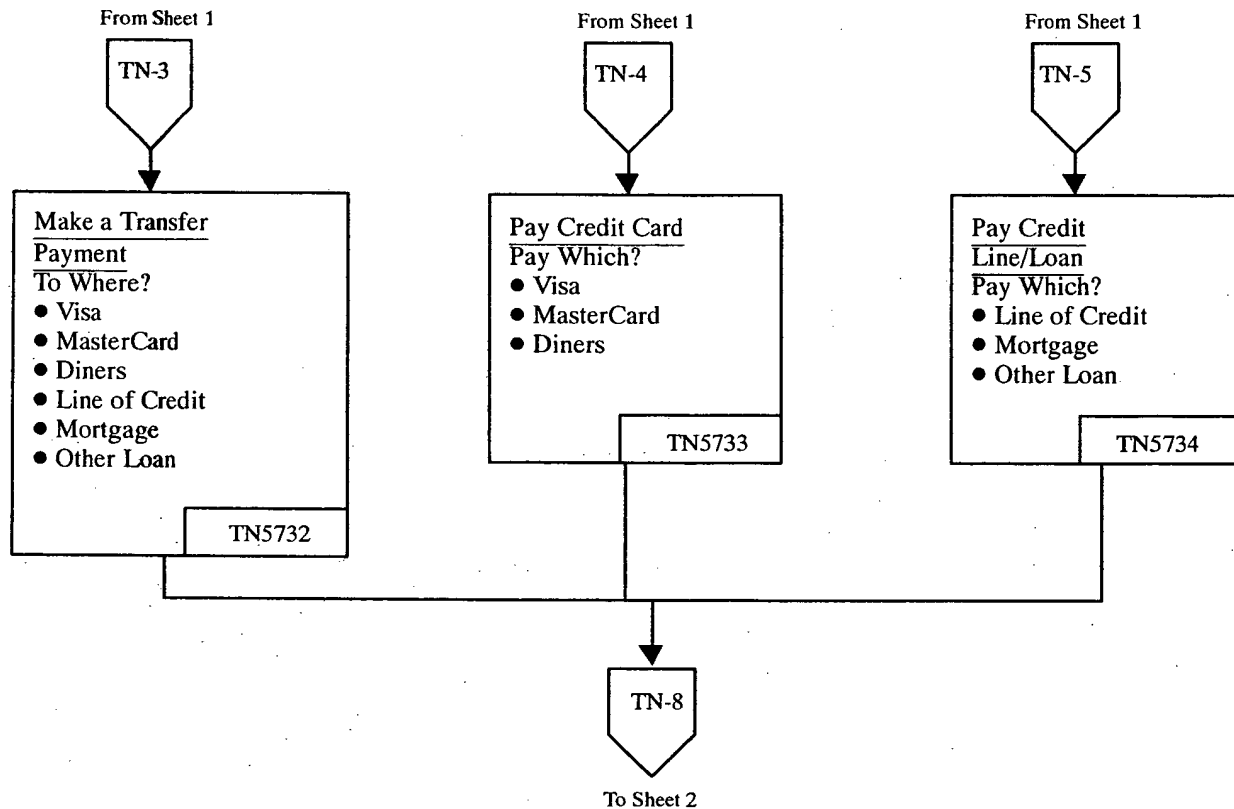


Figure 5-9. Payment Sub-Menus (Sheet 9 of 10)

STR 45217-S

Transfer

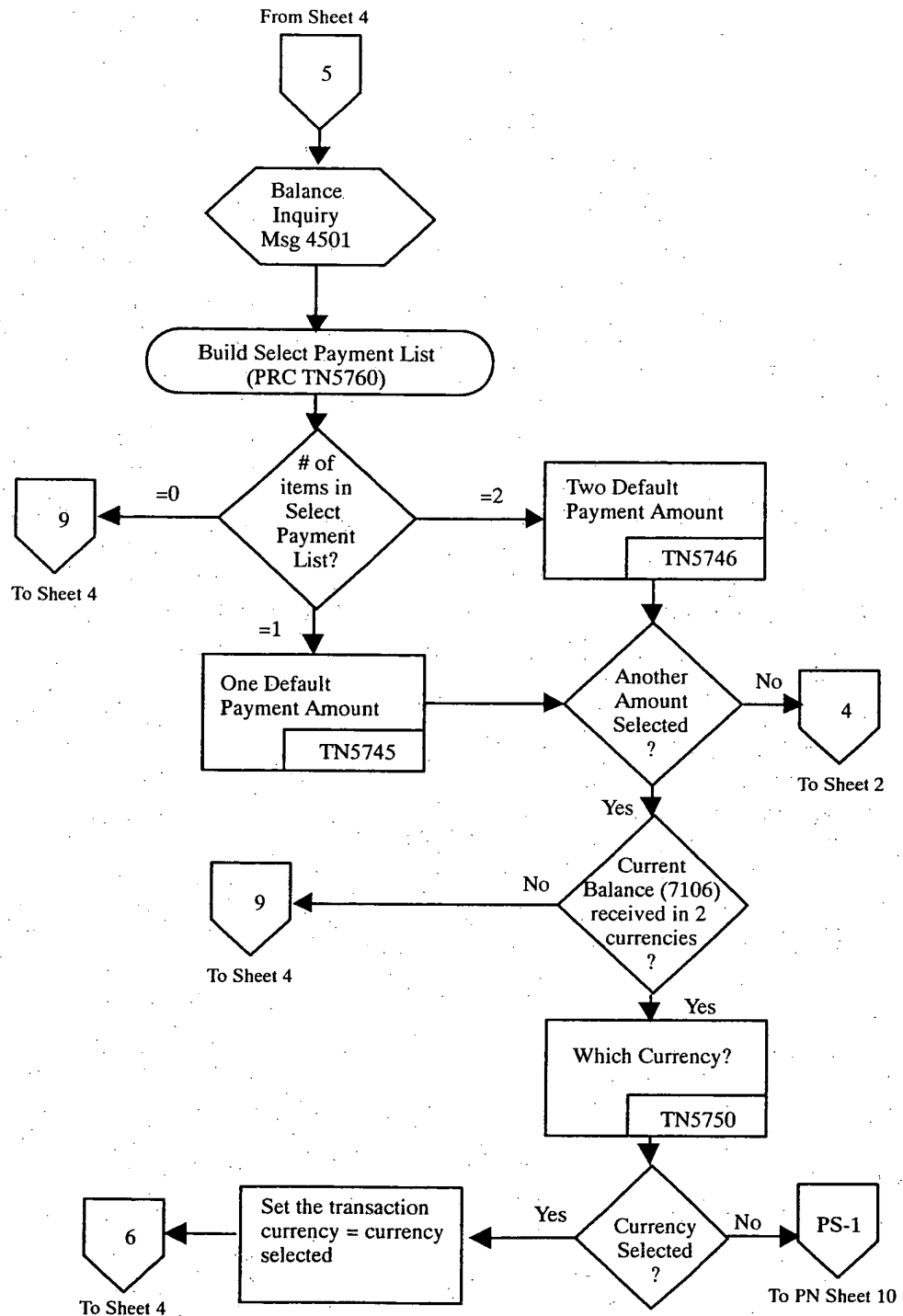


Figure 5-10. Determine Payment Amount to Credit Product (Sheet 10 of 10)

5.4 Special Tables

This section shows the tables for the Transfer application.

Table 5-1 shows what balances should be used for the default payment amounts on screens TN5745 and TN5746. Also indicated is the exact screen text that should accompany these amounts. The text specified will be displayed as indicated in the "Comments" on these screens.

For those product categories that support more than one default payment amount, when both amounts are received they should be displayed in the order shown in the table. (For more information regarding these amounts, see also flowchart Figure 5-10 and Process PRC TN5760 in Section 5.6 of this chapter.)

If a date is received, it should be displayed as described in Appendix C.

Table 5-1. Default Payment Amounts and Text Descriptors

Product Category	ID	Text if No Date Rec'd	Text if Date Received
Visa MasterCard	7192 (7401)	Minimum Payment Due	Minimum Payment Due on (date)
	7120	Last Statement Balance	Last Statement Balance
Diners Club	7114 (7401)	Total Due	Total Due on (date)
Line of Credit Other Loans	7114 (7401)	Next Payment Due	Next Payment Due on (date)
	7112	Amount You Owe	Amount You Owe
Mortgage	7114 (7401)	Next Payment Due	Next Payment Due on (date)

5.5 Screens

This section shows the screens and standard data elements for the Transfer application.

Screen Transition: See Figure 5-4.

Screen TN5702. Transfer Amount With Period - Off-U's

```

111111111122222222223333333334
123456789012345678901234567890
+-----+
1 | Tell me the amount you want to | 1
2 | transfer from XXXXXXXX to XXXXXXXX. | 2 offus_srceacct_desc1/offus_destacct_desc1
3 | Use the decimal point, please. Then | 3
4 | touch ENTER. (Touch CLEAR to erase.) | 4
5 | +-----+ | 5
6 | |XXXXXX-----| | 6 ccode/tfr_amt_a
7 | +-----+ | 7
8 | | | | | 8
9 | | 1 | 2 | 3 | | 9
10 | | | | | 10
11 | +-----+ ENTER | 11
12 | | | | | 12
13 | | 4 | 5 | 6 | | 13
14 | | | | | 14
15 | +-----+ | 15
16 | | | | | 16
17 | | 7 | 8 | 9 | | 17
18 | +-----+ | 18
19 | CLEAR | 0 | . | | EXIT | 19
20 | | | | | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
offus_srceacct_desc1	O	X(8)	V	Display one of the following based on the source account type: 001 - "Checking" 004 - "Savings"
offus_destacct_desc1	O	X(8)	V	Display one of the following based on the destination account type: 001 - "Checking" 004 - "Savings"
ccode	O	X(6)	R	Display the currency descriptor for the transfer transaction currency code.

STR 45089-S
STR 46579-S
STR 48212-S

Standard Data Elements: Screen TN5702 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt_a	I	9(15)		<p>Entry is typewriter style, left to right. If two decimal places are supported for the default transfer currency, valid tfr_amt_a is \leq 999999999999.99 and \geq .01.</p> <p>If three decimal places are supported for the default transfer currency, valid tfr_amt_a is \leq 999999999999.999 and \geq .001.</p>

Screen Transition: See Figure 5-4.

Screen TN5702a. Transfer Amount With Period - On-Us

```

1111111111222222222233333333334
123456789012345678901234567890

```

1	Tell me the amount you want to				1
2	XXXXXXXXXXXXXXXXXXXXXXXXXXXX				2
3	XXXXXXXXXXXXXXXXXXXXXXXXXXXX.				3
4	Use the decimal point, please.				4
5	+-----+				5
6	XXXXXX-----				6
7	+-----+				7
8	1	2	3		8
9					9
10					10
11	+-----+			ENTER	11
12					12
13	4	5	6		13
14					14
15	+-----+				15
16					16
17	7	8	9		17
18	+-----+				18
19	CLEAR	0	.	EXIT	19
20	+-----+				20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
-----------	-----	--------	---------	----------

trans_pay	O	X(8)	V	For ICC Card Class 91, if the CA Category associated with the destination Product Category is "Checking and Current" or "Savings and Investment", then display "transfer".
-----------	---	------	---	--

Else, display "pay".

STR 44474-S
STR 45089-S
STR 46579-S

Standard Data Elements: Screen TN5702a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc20	O	X(21)	V	<p>For ICC Card Class 91 transfers, display "to" followed by a space and then the name of the destination Product Category chosen:</p> <p>1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 5 - "Savings/Investment"</p> <p>For ICC Card Class 91 payments, display "to" followed by a space and then the name of the destination Product Category chosen:</p> <p>6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"</p>
acct_no14	O	X(22)	V	For ICC Card Class 91 transfers and payments, display the account number for the account chosen from the profile.
ccode	O	X(6)	R	Display the currency descriptor for the transaction currency code.
tfr_amt_a	I	9(15)		<p>Entry is typewriter style, left to right. If two decimal places are supported for the default transfer currency, valid tfr_amt_a is \leq 99999999999.99 and \geq .01.</p> <p>If three decimal places are supported for the default transfer currency, valid tfr_amt_a is \leq 99999999999.999 and \geq .001.</p>

Screen Transition: See Figure 5-4.

STR 44537-S
STR 45089-S

STR 44474-S
STR 46544-S

Screen TN5703. Transfer Amount Without Decimal Point - Off-U.s

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | Please tell me the amount you want to | 1
2 | transfer from XXXXXXXX to XXXXXXXX. | 2 offus_srceacct_desc1/offus_destacct_desc1
3 | Then touch ENTER. | 3
4 | (Touch CLEAR to erase.) | 4
5 | +-----+ | 5
6 | |XXXXXX|-----| | 6 ccode/tfr_amt_b
7 | +-----+ | 7
8 | | | | | 8
9 | | 1 | | 2 | | 3 | | 9
10 | | | | | 10
11 | +-----+ | ENTER | 11
12 | | 4 | | 5 | | 6 | | 12
13 | | | | | 13
14 | | | | | 14
15 | +-----+ | 15
16 | | | | | 16
17 | | 7 | | 8 | | 9 | | 17
18 | +-----+ | 18
19 | | CLEAR | | 0 | | | | EXIT | 19
20 | | | | | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
offus_srceacct_desc1	O	X(8)	V	Display one of the following based on the source account type: 001 - "Checking" 004 - "Savings"
offus_destacct_desc1	O	X(8)	V	Display one of the following based on the destination account type: 001 - "Checking" 004 - "Savings"
ccode	O	X(6)	R	Display the currency descriptor for the transfer currency transaction code.
tfr_amt_b	I	9(14)		Entry is typewriter style, left to right. Valid tfr_amt_b is < 99999999999999 and ≥ 1.

Screen Transition: See Figure 5-4.

STR 45089-S
STR 48212-S

STR 46579-S

Screen TN5703a. Transfer Amount Without Decimal Indicator - On-Us

1111111111222222222233333333334		
1234567890123456789012345678901234567890		
1	Tell me the amount you want to	1
2	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	2 trans_pay/acct_desc20
3	XXXXXXXXXXXXXXXXXXXX.	3 acct_no14
4	Then touch ENTER .	4
5	+-----+	5
6	XXXXXX-----	6 ccode/tfr_amt_b
7	+-----+	7
8		8
9	1 2 3	9
10		10
11	+-----+ ENTER	11
12		12
13	4 5 6	13
14		14
15	+-----+	15
16		16
17	7 8 9	17
18	+-----+	18
19	CLEAR 0	19 EXIT
20		20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
trans_pay	O	X(8)	V	For ICC Card Class 91, if the CA Category associated with the destination Product Category is "Checking and Current" or "Savings and Investment", then display "transfer". Else, display "pay".

STR 44474-S
STR 45089-S
STR 46579-S

Standard Data Elements: Screen TN5703a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc20	O	X(21)	V	<p>For ICC Card Class 91 transfers, display "to" followed by a space and then the name of the destination Product Category chosen:</p> <p>1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 5 - "Savings/Investment"</p> <p>For ICC Card Class 91 payments, display "to" followed by a space and then the name of the destination Product Category chosen:</p> <p>6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"</p>
acct_no14	O	X(22)	V	For ICC Card Class 91 transfers and payments, display the account number for the account chosen from the profile.
ccode	O	X(6)	R	Display the currency descriptor for the transaction currency code.
tfr_amt_b	I	9(14)		Entry is typewriter style, left to right. Valid tfr_amt_b is < 99999999999999 and > 1.

Screen Transition: See Figure 5-4.

STR 44474-S
STR 45089-S

STR 44537-S
STR 46544-S

Screen TN5704. Ready To Transfer - Off-Us

```

1111111111222222222233333333334
123456789012345678901234567890
+-----+
1|                                     | 1
2| Okay. I'm ready to transfer       | 2
3|                                     | 3
4+-----+ 4
5|          XXXXXXXXXXXXXXXXXXXXXXXX | 5 tfr_amt
6|                                     | 6
7|        from XXXXXXXX             | 7 offus_srceacct_desc1
8|                                     | 8
9|        to   XXXXXXXX             | 9 offus_destacct_desc1
10+-----+ 10
11|                                     | 11
12|                                     | 12
13| Is this right?                   | 13
14|                                     | 14
15| +-----+      +-----+         | 15
16| | Yes  |      | No  |             | 16
17| +-----+      +-----+         | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25) / \$	L	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.
offus_srceacct_desc1	O	X(8)	V	Display one of the following based on the source account type: 001 - "Checking" 004 - "Savings"
offus_destacct_desc1	O	X(8)	V	Display one of the following based on the destination account type: 001 - "Checking" 004 - "Savings"

Screen Transition: See Figure 5-3.

Messages to/from ESPs: If PIN reentry is not required because this is the first transaction of the session, send FC4402.

STR 45089-S

STR 48212-S

Screen TN5704a. Ready To Transfer - On-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | Okay. I'm ready to transfer | 1
2 |                             | 2
3 |                             | 3
4 |-----+-----+ 4
5 |           XXXXXXXXXXXXXXXXXXXXXXX | 5 tfr_amt
6 |           |                     | 6
7 |   from XXXXXXXXXXXXXXXXXXXXXXX | 7 srceacct_desc1
8 |           XXXXXXXXXXXXXXXXXXXXXXX | 8 srceacct_no1
9 |           |                     | 9
10 |   to XXXXXXXXXXXXXXXXXXXXXXX | 10 destacct_desc1
11 |           XXXXXXXXXXXXXXXXXXXXXXX | 11 destacct_no1
12 |           |                     | 12
13 |-----+-----+ 13
14 |                             | 14
15 |                             | 15
16 | Is this right? | 16
17 |                             | 17
18 | +-----+ +-----+ +-----+ | 18
19 | | Yes | | No | | EXIT | | 19
20 | +-----+ +-----+ +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25)/\$	L	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.

STR 44549-S

STR 45089-S

Standard Data Elements: Screen TN5704a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
srceacct_desc1	O	X(18)	L	For ICC Card Class 91 transfers and payments, display the name of the source Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
srceacct_no1	O	X(22)	L	Display the account number for the source account from the profile message.
destacct_desc1	O	X(18)	L	For ICC Card Class 91 transfers or payments, display the name of the destination Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
destacct_no1	O	X(22)	L	Display the account number for the destination account from the profile message.

Screen Transition: See Figure 5-3.

Comments: If PIN re-entry is not required because this is the first transaction of the session, send FC4402.

STR 44537-S
STR 46731-S

STR 45089-S

Screen TN5705. Transfer Amount With Comma - Off-U's

```

1111111111222222222233333333334
1234567890123456789012345678901234567890

```

1	Tell me the amount you want to				1
2	transfer from XXXXXXXX to XXXXXXXX.				2 offus_srceacct_desc1/offus_destacct_desc1
3	Use the comma, please. Then touch				3
4	ENTER.. (Touch CLEAR to erase.)				4
5	+-----+				5
6	XXXXXX-----				6 ccode/tfr_amt_d
7	+-----+				7
8	+-----+				8
9	1	2	3	ENTER	9
10					10
11					11
12	+-----+				12
13	4	5	6		13
14					14
15					15
16	+-----+				16
17	7	8	9		17
18					18
19					19
20	CLEAR	0	,	EXIT	20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
offus_srceacct_desc1	O	X(8)	V	Display one of the following based on the source account type: 001 - "Checking" 004 - "Savings"
offus_destacct_desc1	O	X(8)	V	Display one of the following based on the destination account type: 001 - "Checking" 004 - "Savings"
ccode	O	X(6)	R	Display the currency descriptor for the transfer transaction currency code.

STR 45089-S STR 46579-S
STR 44550-S STR 48212-S

Standard Data Elements: Screen TN5705 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt_d	I	9(15)		<p>Entry is typewriter style, left to right. If two decimal places are supported for the default transfer currency, valid tfr_amt_a is \leq 99999999999.99 and \geq .01.</p> <p>If three decimal places are supported for the default transfer currency, valid tfr_amt_a is \leq 99999999999.999 and \geq .001.</p>

Screen Transition: See Figure 5-4.

Comments: The touch echo for the "decimal point" touch area should be a *comma*.

STR 44550-S

Screen TN5705a. Transfer Amount With Comma - On-Us

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 | Tell me the amount you want to | 1
2 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 2 trans_pay/acct_desc20
3 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 3 acct_no14
4 | Use the comma, please. | 4
5 | +-----+ | 5
6 | |XXXXXX-----| | 6 ccode/tfr_amt_d
7 | +-----+ | 7
8 | | | | 8
9 | | 1 | | 2 | | 3 | | 9
10 | | | | 10
11 | +-----+ | ENTER | 11
12 | | | | 12
13 | | 4 | | 5 | | 6 | | 13
14 | | | | 14
15 | +-----+ | 15
16 | | | | 16
17 | | 7 | | 8 | | 9 | | 17
18 | +-----+ | 18
19 | CLEAR | 0 | | , | | EXIT | 19
20 | | | | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
-----------	-----	--------	---------	----------

trans_pay	O	X(8)	V	For ICC Card Class 91, if the CA Category associated with the destination Product Category is "Checking and Current" or "Savings and Investment", then display "transfer".
-----------	---	------	---	--

Else, display "pay".

STR 44474-S	STR 44550-S
STR 45089-S	STR 46579-S

Standard Data Elements: Screen TN5705a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc20	O	X(21)	V	<p>For ICC Card Class 91 transfers, display "to" followed by a space and then the name of the destination Product Category chosen:</p> <p>1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 5 - "Savings/Investment"</p> <p>For ICC Card Class 91 payments, display "to" followed by a space and then the name of the destination Product Category chosen:</p> <p>6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"</p>
acct_no14	O	X(22)	V	For ICC Card Class 91 transfers and payments, display the account number for the account chosen from the profile.
ccode	O	X(6)	R	Display the currency descriptor for the transaction currency code.
tfr_amt_d	I	9(15)		<p>Entry is typewriter style, left to right. If two decimal places are supported for the default transfer currency, valid tfr_amt_a is $\leq 999999999999,99$ and $\geq ,01$.</p> <p>If three decimal places are supported for the default transfer currency, valid tfr_amt_a is $\leq 999999999999,999$ and $\geq ,001$.</p>

Screen Transition: See Figure 5-4.

Comments: The character for the "decimal point" touch area should be a *comma*.

STR 44537-S
STR 45089-S
STR 46544-S

STR 44546-S
STR 44474-S
STR 44550-S

Screen TN5707. New Balances - Off-U's

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | I just transferred | 1
2 | XXXXXXXXXXXXXXXXXXXXXXXXXX | 2 tfr_amt
3 | from XXXXXXXX to XXXXXXXX. | 3 offus_srceacct_desc1/offus_destacct_desc1
4 |-----+-----+ 4
5 | Your new XXXXXXXX XXXXXXXXXXXXXXX: | 5 offus_srceacct_desc3/offus_txt3
6 | X | 6 txt3a
7 | XXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXX | 7 offus_bal1/offus_bal_txt1
8 | XXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXX | 8 offus_bal2/offus_bal_txt2
9 | | 9
10 | Your new XXXXXXXX XXXXXXXXXXXXXXX: | 10 offus_destacct_desc3/offus_txt4
11 | X | 11 txt4a
12 | XXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXX | 12 offus_bal3/offus_bal_txt3
13 | XXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXX | 13 offus_bal4/offus_bal_txt4
14 |-----+-----+ 14
15 | | 15
16 | May I help you with something else? | 16
17 | | 17
18 | +-----+ +-----+ +-----+ | 18
19 | | Yes | | No | | EXIT | | 19
20 | +-----+ +-----+ +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25)/\$	L	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.
offus_srceacct_desc1	O	X(8)	V	Display one of the following based on the source account type: 001 - "Checking" 004 - "Savings"
offus_destacct_desc1	O	X(8)	V	Display one of the following based on the destination account type: 001 - "Checking" 004 - "Savings"

STR 45089-S

STR 48212-S

Standard Data Elements: Screen TN5707 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
offus_srceacct_desc3	O	X(8)	V	Display one of the following based on the source account type: 001 - "Checking" 004 - "Savings"
offus_txt3	O	X(12)	V	If Current_Bal and Avail_Bal from the Srceacct_Info structure in FC4402 were both returned, display "balances are". Otherwise, display "balance is".
txt3a	O	X(1)	L	If the language for this session is English, leave blank.
offus_bal1	O	X(25) / \$	R	If Current_Bal from the Srceacct_Info structure was returned in FC4402, display Current_Bal from the Srceacct_Info structure in FC4402. Format Current_Bal based on Currency_Cde from the Srceacct_Info structure in FC4201. If Current_Bal from the Srceacct_Info structure was <i>not</i> returned in FC4402, display Avail_Bal from the Srceacct_Info structure in FC4402. Format Avail_Bal based on Currency_Cde from the Srceacct_Info structure in FC4402.
offus_bal_txt1	O	X(13)	L	If Current_Bal from the Srceacct_Info structure was returned in FC4402, display "on deposit". If Current_Bal from the Srceacct_Info structure was <i>not</i> returned in FC4402, display "available now".
offus_bal2	O	X(19) / Z	R	If Current_Bal from the Srceacct_Info structure was returned in FC4402 and Avail_Bal from the Srceacct_Info structure was returned in FC4402, then display Avail_Bal from Srceacct_Info structure in FC4402. Format Avail_Bal based on Currency_Cde from the Srceacct_Info structure in FC4402. Else, leave blank.
offus_bal_txt2	O	X(13)	L	If Current_Bal from the Srceacct_Info structure was returned in FC4402 and Avail_Bal from the Srceacct_Info structure was returned in FC4402, display "available now". Otherwise, leave blank.

STR 45089-S
STR 48212-S

Standard Data Elements: Screen TN5707 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
offus_destacct_desc3	O	X(8)	V	Display one of the following based on the destination account type: 001 - "Checking" 004 - "Savings"
offus_txt4	O	X(12)	V	If Current_Bal and Avail_Bal from the Destacct_Info structure in FC4402 were both returned, display "balances are". Otherwise, display "balance is".
txt4a	O	X(1)	L	If the language for this session is English, leave blank.
offus_bal3	O	X(25) / \$	R	If Current_Bal from the Destacct_Info structure was returned in FC4402, display Current_Bal from the Destacct_Info structure in FC4402. Format Current_Bal based on Currency_Cde from the Destacct_Info structure in FC4201. If Current_Bal from the Destacct_Info structure was <i>not</i> returned in FC4402, display Avail_Bal from Destacct_Info structure in FC4402. Format Avail_Bal based on Currency_Cde from the Destacct_Info structure in FC4402.
offus_bal_txt3	O	X(13)	L	If Current_Bal from the Destacct_Info structure was returned in FC4402, display "on deposit". If Current_Bal from the Destacct_Info structure was <i>not</i> returned in FC4402, display "available now".
offus_bal4	O	X(19) / Z	R	If Current_Bal from the Destacct_Info structure was returned in FC4402 and Avail_Bal from the Destacct_Info structure was returned in FC4402, display Avail_Bal from Destacct_Info structure in FC4402. Format Avail_Bal based on Currency_Cde from the Destacct_Info structure in FC4402. Otherwise, leave blank.
offus_bal_txt4	O	X(13)	L	If Current_Bal from the Destacct_Info structure was returned in FC4402 and Avail_Bal from the Destacct_Info structure was returned in FC4402, display "available now". Otherwise, leave blank.

STR 45089-S

STR 48212-S

Screen Transition: See Figure 5-5.

Comments: This screen is displayed after a successful transfer in which at least one balance was returned for both the source account and the destination account.

Transfer

Screen TN5707a. New Balances - On-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1| I just transferred | 1
2| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 2 tfr_amt
3| from XXXXXXXXXXXXXXXXXXXXXXXX | 3 srceacct_desc1
4| to XXXXXXXXXXXXXXXXXXXXXXXX. | 4 destacct_desc1
5+-----+ 5
6| Your new XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 6 srceacct_desc3/srceacct_no8
7| XXXXXXXXXXXXXXX: | 7 txt3/txt3a (not shown)
8| XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 8 bal1/bal_txt1
9| XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 9 bal2/bal_txt2
10 | 10
11| Your new XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 11 destacct_desc3/destacct_no8
12| XXXXXXXXXXXXXXX: | 12 txt4/txt4a (not shown)
13| XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 13 bal3/bal_txt3
14| XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 14 bal4/bal_txt4
15+-----+ 15
16| May I help you with something else? | 16
17| | 17
18| +-----+ +-----+ +-----+ | 18
19| | Yes | | No | | EXIT | | 19
20| +-----+ +-----+ +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25)/\$	L	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.

STR 44655-S

STR 45089-S

Standard Data Elements: Screen TN5707a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
srceacct_desc1	O	X(18)	V	For ICC Card Class 91 transfers and payments, display the name of the source Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
destacct_desc1	O	X(18)	V	For ICC Card Class 91 transfers or payments, display the name of the destination Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
srceacct_desc3	O	X(18)	V	For ICC Card Class 91 transfers and payments, display the name of the source Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44537-S
STR 46731-S

STR 45089-S
STR 46544-S

Standard Data Elements: Screen TN5707a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
sreceacct_no8	O	X(22)	L	Display the account number for the source account from the Message 4402 response (elemid 7012), if received. Otherwise, display the source account number from the Message 4402 request.
txt3	O	X(12)	V	<p>If both valid resulting balances are returned in the Sreceacct_Info structure in FC4402, display "balances are".</p> <p>If only one valid balance is returned, then display "balance is".</p> <p>(NO TAG summarizes all of the balances that are valid for products that can be used as a source for a transfer.)</p>
txt3a	O	X(1)	V	If the language for this session is English, leave blank.
bal1	O	X(25) / \$	R	<p>Display the first valid balance returned in the Sreceacct_Info structure in FC4402.</p> <p>Format the balance based on the Currency_Cde from the Sreceacct_Info structure in FC4402. (See comments below.)</p>
bal_txt1	O	X(24)	L	Display the balance text for the source account's first valid balance. The text to display can be found in NO TAG.
bal2	O	X(19) / Z	R	<p>Display the second valid balance in the Sreceacct_Info structure in FC4402, if one is returned.</p> <p>Else, if no balance is returned, leave blank.</p> <p>Format the balance based on the Currency_Cde from the Sreceacct_Info structure in FC4402. (See comments below.)</p>

STR 46739-S
STR 44655-S

Standard Data Elements: Screen TN5707a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
bal_txt2	O	X(24)	L	<p>Display the balance text for the source account's second valid balance, if it is returned. The text to display can be found in NO TAG.</p> <p>Else, if no balance is returned, leave blank.</p>
destacct_desc3	O	X(18)	V	<p>For ICC Card Class 91 transfers or payments, display the name of the destination Product Category chosen:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
destacct_no8	O	X(22)	L	<p>Display the account number for the destination account from the Message 4402 response (elemid 7013), if received. Otherwise, display the destination account number from the Message 4402 request.</p>
txt4	O	X(12)	V	<p>If both valid resulting balances are returned in the Destacct_Info structure in FC4402, display "balances are".</p> <p>If only one valid balance is returned, then display "balance is".</p> <p>(Table 6-1 summarizes all of the balances that are valid for products that can be used as the destination for a transfer or payment.)</p>

STR 44537-S
STR 45089-S

STR 44655-S

Standard Data Elements: Screen TN5707a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
txt4a	O	X(1)	V	If the language for this session is English, leave blank.
bal3	O	X(25) / \$	R	Display the first valid balance returned in the Destacct_Info structure in FC4402. Format the balance based on the Currency_Cde from the Destacct_Info structure in FC4402. (See comments below.)
bal_txt3	O	X(24)	L	Display the balance text for the destination account's first valid balance. The text to display can be found in NO TAG.
bal4	O	X(19) / Z	R	Display the second valid balance in the Destacct_Info structure in FC4402, if one is returned. Else, if no balance is returned, leave blank. Format the balance based on the Currency_Cde from the Destacct_Info structure in FC4402. (See comments below.)
bal_txt4	O	X(24)	L	Display the balance text for the destination account's second valid balance, if it is returned. The text to display can be found in NO TAG. Else, if no balance is returned, leave blank.

Screen Transition: See Figure 5-5.

Comments: This screen is displayed after a successful transfer in which at least one balance was returned for both the source account and the destination account.

NOTE

When displaying balances, if more than one "Current Balance" is returned, display the one that has the same currency code as the currency code associated with the account as found in the profile.

Screen TN5708. New Balances - Off-U's

```

11111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 | I just transferred                 | 2
3 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 3 tfr_amt
4 | from XXXXXXXXX to XXXXXXXXX.     | 4 offus_srceacct_desc1/offus_destacct_desc1
5 |                                     | 5
6 +-----+                         | 6
7 | Your new XXXXXXXXX XXXXXXXXXXXXXXX: | 7 offus_acct_desc7/offus_txt5
8 | X                                   | 8 txt5a
9 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX | 9 offus_bal5/offus_bal_txt5
10 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX | 10 offus_bal6/offus_bal_txt6
11 +-----+                         | 11
12 |                                     | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+           +-----+ | 15
16 | | Yes |           | No | | 16
17 | +-----+           +-----+ | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25)/\$	L	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.
offus_srceacct_desc1	O	X(8)	V	Display one of the following based on the source account type: 001 - "Checking" 004 - "Savings"
offus_destacct_desc1	O	X(8)	V	Display one of the following based on the destination account type: 001 - "Checking" 004 - "Savings"

STR 45089-S
STR 48212-S

Standard Data Elements: Screen TN5708 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
offus_acct_desc7	O	X(8)	V	Depending upon the account type for which balances were received, display one of the following: 001 - "Checking" 004 - "Savings"
offus_txt5	O	X(12)	V	Depending upon which of the accounts you received balances for, if both Current_Bal and Avail_Bal were received, display "balances are". Otherwise, display "balance is".
txt5a	O	X(1)	L	If the language for this session is English, leave blank.
offus_bal5	O	X(25) / \$	R	If Current_Bal from the Srceacct_Info structure <i>or</i> the Destacct_Info structure was returned in FC4402, display Current_Bal from the Srceacct_Info structure <i>or</i> the Destacct_Info structure in FC4402. Format Current_Bal based on Currency_Cde from the Srceacct_Info structure <i>or</i> the Destacct_Info structure in FC4201. If Current_Bal from the Srceacct_Info structure <i>or</i> the Destacct_Info structure was <i>not</i> returned in FC4402, display Avail_Bal from Srceacct_Info structure <i>or</i> the Destacct_Info structure in FC4402. Format Avail_Bal based on Currency_Cde from the Srceacct_Info structure <i>or</i> the Destacct_Info structure in FC4402.
offus_bal_txt5	O	X(13)	L	If Current_Bal from the Srceacct_Info structure <i>or</i> the Destacct_Info structure was returned in FC4402, display "on deposit". If Current_Bal from the Srceacct_Info structure <i>or</i> the Destacct_Info structure was <i>not</i> returned in FC4402, display "available now".

STR 45089-S

STR 48212-S

Standard Data Elements: Screen TN5708 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
offus_bal6	O	X(19)/Z	R	If Current_Bal from the Srceacct_Info structure <i>or</i> the Destacct_Info structure was returned in FC4402 and Avail_Bal from the Srceacct_Info structure <i>or</i> the Destacct_Info structure was returned in FC4402, display Avail_Bal from the Srceacct_Info structure <i>or</i> the Destacct_Info structure in FC4402. Format Avail_Bal based on Currency_Cde from the Srceacct_Info structure <i>or</i> the Destacct_Info structure in FC4402. Otherwise, leave blank.
offus_bal_txt6	O	X(13)	L	If Current_Bal from the Srceacct_Info structure <i>or</i> the Destacct_Info structure was returned in FC4402 and Avail_Bal from the Srceacct_Info structure <i>or</i> the Destacct_Info structure was returned in FC4402, display "available now". Otherwise, leave blank.

Screen Transition: See Figure 5-5.

Comments: This screen is displayed after a successful transfer in which at least one balance was returned for either the source account or the destination account, and no balances were returned for the other account.

STR 45089-S

Screen TN5708a. New Balances - On-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | I just transferred | 1
2 | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 2
3 | from XXXXXXXXXXXXXXXXXXXX | 3 tfr_amt
4 | to XXXXXXXXXXXXXXXXXXXX. | 4 srceacct_desc1
5 | | 5 destacct_desc1
6 |-----+-----+ 6
7 | Your new XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 7 acct_desc7/transacct_no1
8 | XXXXXXXXXXXXXXX: | 8 txt5/txt5a (not shown)
9 | XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 9 bal5/bal_txt5
10 | XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 10 bal6/bal_txt6
11 |-----+-----+ 11
12 | May I help you with something else? | 12
13 | | 13
14 | | 14
15 | +-----+ +-----+ | 15
16 | | Yes | | No | | 16
17 | +-----+ +-----+ | 17
18 | | | | +-----+ | 18
19 | | | | | EXIT | | 19
20 | | | | +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25)/\$	L	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.
srceacct_desc1	O	X(18)	V	For ICC Card Class 91 transfers and payments, display the name of the source Product Category chosen: <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 45089-S

STR 46731-S

STR 44537-S

Standard Data Elements: Screen TN5708a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
destacct_desc1	O	X(18)	V	<p>For ICC Card Class 91 transfers or payments, display the name of the destination Product Category chosen:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
acct_desc7	O	X(18)	V	<p>For ICC Card Class 91 transfers and payments, display one of the following, depending upon the Product Category for which balances were received:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44537-S
STR 46731-S

STR 45089-S
STR 46544-S

Standard Data Elements: Screen TN5708a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
transacct_no1	O	X(22)	L	<p>If a source balance(s) is received, display the account number for the source account from the Message 4402 response (elemid 7012), if received. Otherwise, display the source account number from the Message 4402 request.</p> <p>If a destination balance(s) is received, display the account number for the destination account from the Message 4402 response (elemid 7013), if received. Otherwise, display the destination account number from the Message 4402 request.</p>
txt5	O	X(12)	V	<p>If both valid resulting balances were returned for either the source or the destination account, display "balances are".</p> <p>If only one valid balance is returned for either the source or the destination account, then display "balance is".</p> <p>(NO TAG summarizes all of the balances that are valid for products that can be used as a source or destination for a transfer.)</p>
txt5a	O	X(1)	V	If the language for this session is English, leave blank.
bal5	O	X(25) / \$	R	<p>Display the first valid balance returned in FC4402.</p> <p>Format the balance based on the Currency_Cde returned. (See comments below.)</p>
bal_txt5	O	X(24)	L	Display the balance for the first valid balance returned. The text to display can be found in NO TAG.
bal6	O	X(19) / Z	R	<p>Display the second valid balance returned in FC4402, if one is returned.</p> <p>Else, leave blank.</p> <p>Format the balance based on the Currency_Cde returned. (See comments below.)</p>

STR.44802-S

STR 46544-S

Standard Data Elements: Screen TN5708a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
bal_txt6	O	X(24)	L	Display the balance for the second valid balance returned. The text to display can be found in NO TAG. If no valid second balance is returned, then leave blank.

Screen Transition: See Figure 5-5.

Comments: This screen is displayed after a successful transfer in which at least one balance was returned for either the source account or the destination account, and no balances were returned for the other account.

NOTE

When displaying balances, if more than one "Current Balance" is returned, display the one that has the same currency code as the currency code associated with the account as found in the profile.

Standard Data Elements

Screen Transition: See Figure 5-5.

STR 45089-S

STR 48212-S

Screen TN5709a. I Just Transferred (No Balances) - On-Us

```

11111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1|                                     | 1
2| Okay.  I just transferred         | 2
3|                                     | 3
4|-----+-----+                     | 4
5|           XXXXXXXXXXXXXXXXXXXXXXX | 5 tfr_amt
6|                                     | 6
7|       from XXXXXXXXXXXXXXXXXXXXX | 7 srceacct_desc1
8|           XXXXXXXXXXXXXXXXXXXXXXX | 8 srceacct_no8
9|                                     | 9
10|      to  XXXXXXXXXXXXXXXXXXXXX | 10 destacct_desc1
11|           XXXXXXXXXXXXXXXXXXXXXXX | 11 destacct_no8
12|                                     | 12
13|-----+-----+                     | 13
14|                                     | 14
15|                                     | 15
16| May I help you with something else? | 16
17|                                     | 17
18| +-----+       +-----+       +-----+ | 18
19| | Yes |         | No |         | EXIT | | 19
20| +-----+       +-----+       +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25)/\$	L	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.

STR 44655-S
STR 45089-S

Standard Data Elements: Screen TN5709a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
srceacct_desc1	O	X(18)	L	For ICC Card Class 91 transfers and payments, display the name of the source Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
srceacct_no8	O	X(22)	L	Display the account number for the source account from the Message 4402 response (elemid 7012), if received. Otherwise, display the source account number from the Message 4402 request.
destacct_desc1	O	X(18)	L	For ICC Card Class 91 transfers or payments, display the name of the destination Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
destacct_no8	O	X(22)	L	Display the account number for the destination account from the Message 4402 response (elemid 7013), if received. Otherwise, display the destination account number from the Message 4402 request.

Screen Transition: See Figure 5-5.

Comments: This screen is displayed where there was a successful transfer, but where no balance information was returned.

STR 44537-S
STR 45089-SSTR 44655-S
STR 46731-S

Screen TN5710. Won't Make The Transfer

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 | Okay. I won't make the transfer. | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13| May I help you with something else? | 13
14|                                     | 14
15| +-----+ +-----+ | 15
16| | Yes | | No | | 16
17| +-----+ +-----+ | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Screen Transition: See Figure 5-3, Figure 5-7.

Standard Data Elements

Screen Transition: See Figure 5-6.

5-53

Screen TN5711a. Transfer NSF With Balances - On-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. I can't do that right now. | 3
4 |                                     | 4
5 | You have XXXXXXXXXXXXXXXXXXXXXXXXXX | 5 Avail_Bal
6 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 6 avail_advnc
7 | XXXXXXXXXXXXXXXXXXXXXXXXXX | 7 srceacct_desc4
8 | XXXXXXXXXXXXXXXXXXXXXXXXXX and you want | 8 srceacct_no4
9 | to transfer XXXXXXXXXXXXXXXXXXXXXXXXXX. | 9 tfr_amt
10 |                                     | 10
11 |                                     | 11
12 |                                     | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+ | +-----+ | 15
16 | | Yes | | | No | | 16
17 | +-----+ | +-----+ | 17
18 |                                     | +-----+ | 18
19 |                                     | | EXIT | | 19
20 |                                     | +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
Avail_Bal	O	X(25)/\$	L	<p>If the source account requested is a debit account, display Avail_Bal (ID7104) from the Srceacct_Info structure in FC4402.</p> <p>If the source account requested is a Line of Credit account, display Avail_Credit (ID7108) from the Srceacct_Info structure in FC4402. For all other source credit products, use the Cash Advance Amount (ID7140) from the Srceacct_Info structure in FC4402.</p> <p>Format the balance based on Currency_Cde from the Srceacct_Info structure in FC4402.</p>

STR 45089-S

Standard Data Elements: Screen TN5711a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
avail_advnc	O	X(32)	L	For ICC Card Class 91, if the CA Category associated with the source account is "Checking and Current" or "Savings and Investment", then display "available in". Else, if the CA Category associated with the source account is "Credit Cards" or "Loans and Other Credit", then display "available for cash advances from".
srceacct_desc4	O	X(18)	L	For ICC Card Class 91 transfers and payments, display the name of the source Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
srceacct_no4	O	X(22)	V	Display the account number for the source account from the Message 4402 response (elemid 7012), if received. Otherwise, display the source account number from the Message 4402 request.
tfr_amt	O	X(25)/\$	V	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.

Screen Transition: See Figure 5-6.

STR 44545-S	STR 44537-S
STR 44812-S	STR 45089-S
STR 46544-S	STR 46731-S

Screen TN5712. Transfer NSF Without Balances - Off-Us

```

11111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 | I'm sorry.  I can't do that right now. | 4
5 |                                     | 5
6 | You do not have enough money         | 6
7 | available in XXXXXXXX to transfer    | 7 offus_srceacct_desc4
8 | XXXXXXXXXXXXXXXXXXXXXXXXXXXX.        | 8 tfr_amt
9 |                                     | 9
10 |                                     | 10
11 |                                     | 11
12 |                                     | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+           +-----+      | 15
16 | | Yes  |           | No  |          | 16
17 | +-----+           +-----+      | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
offus_srceacct_desc4	O	X(8)	V	Display one of the following based on the source account type: 001 - "Checking" 004 - "Savings"
tfr_amt	O	X(25)/\$	L	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.

Screen Transition: See Figure 5-6.

STR 45089-S

STR 48212-S

Screen TN5712a. Transfer NSF Without Balances - On-Us

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. I can't do that right now. | 3
4 |                                     | 4
5 | You do not have enough money         | 5
6 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    | 6 avail_advnc
7 | XXXXXXXXXXXXXXXXXXXXXXXX            | 7 srceacct_desc4
8 | XXXXXXXXXXXXXXXXXXXXXXXX to transfer | 8 srceacct_no4
9 | XXXXXXXXXXXXXXXXXXXXXXXX.           | 9 trf_amt
10 |                                     | 10
11 |                                     | 11
12 |                                     | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+           +-----+      | 15
16 | | Yes |           | No |          | 16
17 | +-----+           +-----+      | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
avail_advnc	O	X(32)	L	For ICC Card Class 91, if the CA Category associated with the source account is "Checking and Current" or "Savings and Investment", then display "available in". Else, if the CA Category associated with the source account is "Credit Cards" or "Loans and Other Credit", then display "available for cash advances from".

STR 45089-S

Standard Data Elements: Screen TN5712a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
srceacct_desc4	O	X(18)	L	For ICC Card Class 91 transfers and payments, display the name of the source Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
srceacct_no4	O	X(22)	V	Display the account number for the source account from the Message 4402 response (elemid 7012), if received. Otherwise, display the source account number from the Message 4402 request.
tfr_amt	O	X(25)/\$	V	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.

Screen Transition: See Figure 5-6.

STR 44537-S
STR 45089-S
STR 46544-S

STR 44812-S
STR 46731-S

Screen TN5713. Multi-Currency Transfer Not Allowed - Off-Us

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
I'm sorry. I can't do that right now.
I can't transfer that currency between
your Checking and your Savings.
May I help you with something else?
+-----+ +-----+
| Yes | | No |
+-----+ +-----+
+-----+
| EXIT |
+-----+

```

Screen Transition: See Figure 5-6.

Screen TN5713a. Multi-Currency Transfer Not Allowed - On-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. I can't do that right now. | 3
4 |                                     | 4
5 | I can't transfer that currency between | 5
6 | your XXXXXXXXXXXXXXXXXXXX          | 6 srceacct_desc5
7 |   XXXXXXXXXXXXXXXXXXXX              | 7 srceacct_no5
8 | and your                            | 8
9 |   XXXXXXXXXXXXXXXXXXXX              | 9 destacct_desc5
10 |   XXXXXXXXXXXXXXXXXXXX.             | 10 destacct_no5
11 |                                     | 11
12 |                                     | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+           +-----+      | 15
16 | | Yes |           | No |           | 16
17 | +-----+           +-----+      | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+
      | EXIT |
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
srceacct_desc5	O	X(18)	L	For Card Classes Off-Us 10 - Off-Us 13, leave blank. For ICC Card Class 91 transfers and payments, display the name of the source Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 45089-S
STR 46731-S

STR 44537-S

Standard Data Elements: Screen TN5713a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
srceacct_no5	O	X(22)	L	Display the account number for the source account from the Message 4402 response (elemid 7012), if received. Otherwise, display the source account number from the Message 4402 request.
destacct_desc5	O	X(18)	L	For ICC Card Class 91 transfers or payments, display the name of the destination Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
destacct_no5	O	X(22)	V	Display the account number for the destination account from the Message 4402 response (elemid 7013), if received. Otherwise, display the destination account number from the Message 4402 request.

Screen Transition: See Figure 5-6.

STR 44537-S
STR 45089-S

STR 44812-S
STR 46544-S

Screen TN5714. Confirm Source/Destination Amounts - Off-U's

```

1111111111222222222233333333334
123456789012345678901234567890
+-----+
1|                                     | 1
2| Okay. I'm ready to transfer       | 2
3| XXXXXXXXXXXXXXXXXXXXXXXXXXXX from | 3 tfr_amt
4| XXXXXXXXX to XXXXXXXXX.          | 4 offus_srceacct_desc1/offus_destacct_desc1
5+-----+                             | 5
6| The amount that will be deducted  | 6
7| XXXXXXXX will be XXXXXXXXXXXXXXXX | 7 offus_srceacct_desc2/Srce_Eqv_Txn_Amt
8|                                     | 8
9| The amount that will be credited  | 9
10| XXXXXXXX will be XXXXXXXXXXXXXXXX | 10 offus_destacct_desc2/Dest_Eqv_Txn_Amt
11+-----+                             | 11
12|                                     | 12
13| Would you like to continue?       | 13
14|                                     | 14
15| +-----+           +-----+     | 15
16| | Yes  |           | No  |         | 16
17| +-----+           +-----+     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+                             | 20

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25)/\$	L	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.
offus_srceacct_desc1	O	X(8)	V	Display one of the following based on the source account type: 001 - "Checking" 004 - "Savings"
offus_destacct_desc1	O	X(8)	V	Display one of the following based on the destination account type: 001 - "Checking" 004 - "Savings"

STR 45089-S

STR 48212-S

Standard Data Elements: Screen TN5714 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
offus_srceacct_desc2	O	X(8)	V	Display one of the following based on the source account type: 001 - "Checking" 004 - "Savings"
Src_Eqv_Txn_Amt	O	X(25) / \$	V	Display Src_Eqv_Txn_Amt, the amount of the transfer in the currency of the source account, from Src_Eqv_Txn_Amt in FC4402. Format Src_Eqv_Txn_Amt based on Src_Crncy_Cde in FC4402.
offus_destacct_desc2	O	X(8)	V	Display one of the following based on the destination account type: 001 - "Checking" 004 - "Savings"
Dest_Eqv_Txn_Amt	O	X(25) / \$	V	Display Dest_Eqv_Txn_Amt, the amount of the transfer in the currency of the destination account, from Dest_Eqv_Txn_Amt in FC4402. Format Dest_Eqv_Txn_Amt based on Dest Crncy_Cde in FC4402.

Screen Transition: See Figure 5-7.

Messages to/from ESPs: If customer does not want to continue, send FC4403 with Rev_Reason_Cde = Customer Declined.

If the screen times out, or if customer presses **EXIT**, send FC4403 with Rev_Reason_Cde = Timeout or **EXIT**.

STR 45089-S
STR 48212-S

Screen TN5714a. Confirm Source/Destination Amounts - On-Us

```

11111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1| Okay. I'm ready to transfer | 1
2| XXXXXXXXXXXXXXXXXXXXXXXXXX | 2 tfr_amt
3| from XXXXXXXXXXXXXXXXXXXXXX | 3 srceacct_desc1
4| to XXXXXXXXXXXXXXXXXXXXXX. | 4 destacct_desc1
5+-----+ 5
6| The amount that will be deducted from your | 6
7| XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 7 srceacct_desc2/srceacct_no8
8| will be XXXXXXXXXXXXXXXXXXXXXXXX. | 8 Srce_Eqv_Txn_Amt
9 | 9
10| The amount that will be credited to your | 10
11| XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX | 11 destacct_desc2/destacct_no8
12| will be XXXXXXXXXXXXXXXXXXXXXXXX. | 12 Dest_Eqv_Txn_Amt
13+-----+ 13
14| | 14
15| | 15
16| Would you like to continue? | 16
17| | 17
18| +-----+ +-----+ +-----+ | 18
19| | Yes | | No | | EXIT | | 19
20| +-----+ +-----+ +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25)/\$	L	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.

STR 44807-S

STR 45147-S

STR 44655-S

STR 45089-S

STR 46738-S

Standard Data Elements: Screen TN5714a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
srceacct_desc1	O	X(18)	V	For ICC Card Class 91 transfers and payments, display the name of the source Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
destacct_desc1	O	X(18)	V	For ICC Card Class 91 transfers or payments, display the name of the destination Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
srceacct_desc2	O	X(18)	V	For ICC Card Class 91 transfers and payments, display the name of the source Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44537-S
STR 44807-S
STR 46544-S

STR 45089-S
STR 46731-S

Standard Data Elements: Screen TN5714a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
srceacct_no8	O	X(22)	L	Display the account number for the source account from the Message 4402 response (elemid 7012), if received. Otherwise, display the source account number from the Message 4402 request.
Srce_Eqv_Txn_Amt	O	X(25) / \$	V	Display Srce_Eqv_Txn_Amt, the amount of the transfer in the currency of the source account, from Srce_Eqv_Txn_Amt in FC4402. Format Srce_Eqv_Txn_Amt based on Src_Crncy_Cde in FC4402.
destacct_desc2	O	X(18)	V	For ICC Card Class 91 transfers or payments, display the name of the destination Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
destacct_no8	O	X(22)	L	Display the account number for the destination account from the Message 4402 response (elemid 7013), if received. Otherwise, display the destination account number from the Message 4402 request.
Dest_Eqv_Txn_Amt	O	X(25) / \$	V	Display Dest_Eqv_Txn_Amt, the amount of the transfer in the currency of the destination account, from Dest_Eqv_Txn_Amt in FC4402. Format Dest_Eqv_Txn_Amt based on Dest_Crncy_Cde in FC4402.

Screen Transition: See Figure 5-7.

Messages to/from ESPs: If customer does not want to continue, send FC4403 with Rev_Reason_Cde = Customer Declined.

If the screen times out, or if customer presses **EXIT**, send FC4403 with Rev_Reason_Cde = Timeout or EXIT.

STR 44807-S

STR 44537-S

STR 44655-S

STR 45089-S

STR 46731-S

Screen TN5715. Transfer NSF With Balances In Account/Default Currencies - Off-U's

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. I can't do that right now. | 3
4 |                                     | 4
5 | You have XXXXXXXXXXXXXXXXXXXXXXXX | 5 offus_Avail_Bal(account)
6 | available in XXXXXXXX and you want | 6 offus_srceacct_desc4
7 | to transfer XXXXXXXXXXXXXXXXXXXXXXXX. | 7 tfr_amt
8 |                                     | 8
9 | The most I can transfer from XXXXXXXX | 9 offus_srceacct_desc4
10 | is XXXXXXXXXXXXXXXXXXXXXXXX. | 10 offus_Avail_Bal(transactions)
11 |                                     | 11
12 |                                     | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+ | +-----+ | 15
16 | | Yes | | | No | | 16
17 | +-----+ | +-----+ | 17
18 |                                     | +-----+ | 18
19 |                                     | | EXIT | | 19
20 |                                     | +-----+ | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
offus_Avail_Bal(account)	O	X(25) / \$	L	Display the Avail_Bal in the source account currency from the Srceacct_Info structure in FC4402. Format Avail_Bal based on Currency_Cde from the Srceacct_Info structure in FC4402.
offus_srceacct_desc4	O	X(8)	V	Display one of the following based on the source account type: 001 - "Checking" 004 - "Savings"
tfr_amt	O	X(25)/\$	L	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.

STR 45089-S
STR 48212-S

Standard Data Elements: Screen TN5715 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
offus_srceacct_desc4	O	X(8)	V	Display one of the following based on the source account type: 001 - "Checking" 004 - "Savings"
offus_Avail_Bal(transaction)	O	X(25) / \$	V	Display Avail_Bal in the destination account currency from the Source Account Table structure of FC4402. Format Avail_Bal based on the Destination Currency_Cde of FC4402.

Screen Transition: See Figure 5-6.

STR 45089-S
STR 48212-S

Standard Data Elements

STR 45146-S
STR 45089-S

Standard Data Elements: Screen TN5715a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
				Otherwise, display the Cash_Advance_Amt (7140) element from the Srceacct_Info structure of Message 4402.
				Format the balance based on the Src_Currency_Code (7243) element of Message 4402 response.
avail_advnc	O	X(32)	L	For ICC Card Class 91, if the CA Category associated with the source account is "Checking and Current" or "Savings and Investment", then display "available in".
				Else, if the CA Category associated with the source account is "Credit Cards" or "Loans and Other Credit", then display "available for cash advances from".
srceacct_desc4	O	X(18)	L	For ICC Card Class 91 transfers and payments, display the name of the source Product Category chosen: <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
srceacct_no4	O	X(22)	V	Display the account number for the source account from the Message 4402 response (elemid 7012), if received. Otherwise, display the source account number from the Message 4402 request.

STR 45146-S
STR 45089-S
STR 44812-S

STR 44537-S
STR 46731-S

Standard Data Elements: Screen TN5715a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25)/\$	V	Display the transfer amount that was input by the customer. Format tfr_amt based on the transfer transaction currency code.
srceacct_desc6	O	X(18)	V	For ICC Card Class 91 transfers and payments, display the name of the source Product Category chosen: 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
Avail_Bal_Txn	O	X(25) / \$	V	If the CA Category associated with the source product category is "Checking or Current" or "Savings and Investments", display the Avail_Bal element (7104) received from the Srceacct_Info structure in Message 4402. If the source product category is "Line of Credit", then display the Avail_Credit (7108) element from the Srceacct_Info structure of Message 4402. Otherwise, display the Cash_Advance_Amt (7140) element from the Srceacct_Info structure of Message 4402. Format the balance based on the Dest_Currency_Code (7242) element of Message 4402 response.

Screen Transition: See Figure 5-6.

STR 44537-S
STR 45146-S
STR 46731-S

STR 45089-S
STR 46544-S

Screen TN5716. Can't Transfer To/From Same Account

```

111111111112222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 | I'm sorry. I can't transfer to    | 6
7 | and from the same account.        | 7
8 |                                   | 8
9 |                                   | 9
10|                                   | 10
11|                                   | 11
12|                                   | 12
13| May I help you with something else? | 13
14|                                   | 14
15| +-----+           +-----+    | 15
16| | Yes |           | No |         | 16
17| +-----+           +-----+    | 17
18|                                   | 18
19|                                   | 19
20|                                   | 20
+-----+

```

Screen Transition: See Figure 5-3.

Screen Transition: See Figure 5-6.

5-73

Screen TN5717a. Can't Use Linked Card For Cash Advance/Transfer - On-Us

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 | I'm sorry. I can't XXXXXXXX that | 6 trans_pay3
7 | for you from your XXXXXXXXXXXX | 7 srceacct_desc10
8 | XXXXXXXXXXXXXXXXXXXXXXXXXX.    | 8 srceacct_no10
9 |                                 | 9
10 |                                | 10
11 |                                | 11
12 |                                | 12
13 | May I help you with something else? | 13
14 |                                     | 14
15 | +-----+          +-----+ | 15
16 | | Yes |          | No | | 16
17 | +-----+          +-----+ | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
trans_pay3	O	X(8)	V	<p>If the CA Category of the destination account picked by the customer is "Credit Cards" or "Loans and Other Credit", then display "pay".</p> <p>Else, if the CA Category of the destination account picked by the customer is a "Checking or Current", or "Savings and Investment", then display "transfer".</p>

STR 45507-S

Standard Data Elements: Screen TN5717a (cont)

Data Name	I/O	Format	L-C-R-V	Comments
srceacct_desc10	O	X(11)	V	Display one of the following based on the Source Product Category chosen: 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
srceacct_no10	O	X(22)	V	Display the account number for the source account from the Message 4402 response (elemid 7012), if received. Otherwise, display the source account number from the Message 4402 request.

Screen Transition: See Figure 5-6.

STR 44537-S
STR 44548-S
STR 44812-S

Screen TN5720. Checking/Savings Sub-Menu

```

111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 | What would you like to do?         | 2
3 |                                     | 3
4 |                                     | 4
5 | +-----+                         | 5
6 | | Make a Transfer                  | | 6
7 | +-----+                         | 7
8 |                                     | 8
9 | +-----+                         | 9
10 | | Pay a Credit Card                | | 10
11 | +-----+                         | 11
12 |                                     | 12
13 | +-----+                         | 13
14 | | Pay a Credit Line or or Loan    | | 14
15 | +-----+                         | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Screen Transition: See Figure 5-1.

Screen TN5722. Linked Credit Card Sub-Menu

```
1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |      | 1
2 | What would you like to do? | 2
3 |      | 3
4 |      | 4
5 |      | 5
6 | +-----+ | 6
7 | | Pay a Credit Card | | 7
8 | +-----+ | 8
9 |      | 9
10 |      | 10
11 |      | 11
12 | +-----+ | 12
13 | | Other Transfer | | 13
14 | +-----+ | 14
15 |      | 15
16 |      | 16
17 |      | 17
18 |      | 18
19 |      | 19
20 |      | 20
+-----+
    | EXIT |
```

Screen Transition: See Figure 5-1.

Screen TN5723. Loan - Transfer Or Pay?

```
11111111112222222223333333334
123456789012345678901234567890

+-----+
1 |      | 1
2 | What would you like to do? | 2
3 |      | 3
4 |      | 4
5 |      | 5
6 | +-----+ | 6
7 | | Make a Transfer | | 7
8 | +-----+ | 8
9 |      | 9
10 |      | 10
11 |      | 11
12 | +-----+ | 12
13 | | Make a Transfer Payment | | 13
14 | +-----+ | 14
15 |      | 15
16 |      | 16
17 |      | 17
18 |      | 18
19 |      | 19
20 |      | 20
+-----+
      | EXIT |
```

Screen Transition: See Figure 5-1.

Screen TN5730. Transfer To Which Chk/Sav Category?

```
1111111111222222222233333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 | Where shall I transfer the money to? | 2
3 |                                     | 3
4 | +-----+ | 4
5 | |Checking or Current | | 5
6 | +-----+ | 6
7 | +-----+ | 7
8 | |Savings | | 8
9 | +-----+ | 9
10 | +-----+ | 10
11 | |Money Market | | 11
12 | +-----+ | 12
12 | +-----+ | 13
14 | |Other Savings and Investments | | 14
15 | +-----+ | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+
+-----+
| EXIT |
+-----+
```

Screen Transition: See Figure 5-2.

Screen TN5731. Citi-One For Credit Card - Other Transfer

```

1111111111222222222233333333334
123456789012345678901234567890
+-----+
1 | Where shall I transfer the money to? | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 | +-----+ +-----+ +-----+ | 5
6 | | Checking/ | | Savings | | Line of | | 6
  | | Current  | |         | | Credit  | |
7 | +-----+ +-----+ +-----+ | 7
8 |                                     | 8
9 |                                     | 9
10 |                                     | 10
11 |                                     | 11
12 | | Other Savings | | Other | | 12
   | | & Investments | | Loan  | |
13 | +-----+ +-----+ +-----+ | 13
14 |                                     | 14
15 |                                     | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 | | EXIT | | | 20
   | +-----+ | |
   +-----+
  
```

Screen Transition: See Figure 5-2.

Screen TN5732. Pay Which Credit Card, Line Or Loan

```
111111111122222222223333333334
1234567890123456789012345678901234567890

+-----+
1 | Which would you like to pay? | 1
2 |                               | 2
3 | +-----+ | 3
4 | | Visa | | 4
5 | +-----+ | 5
6 | +-----+ | 6
7 | | MasterCard | | 7
8 | +-----+ | 8
9 | +-----+ | 9
10 | | Diners Club | | 10
11 | +-----+ | 11
12 | +-----+ | 12
13 | | Line of Credit | | 13
14 | +-----+ | 14
15 | +-----+ | 15
16 | | Mortgage | | 16
17 | +-----+ | 17
18 | +-----+ | +-----+ | 18
19 | | Other Loan | | | EXIT | | 19
20 | +-----+ | +-----+ | 20
+-----+
```

Screen Transition: See Figure 5-9.

Screen TN5733. Pay Which Credit Card

111111111122222222223333333334	
1234567890123456789012345678901234567890	
1	
2	Which Credit Card would
3	you like to pay?
4	
5	+-----+
6	Visa
7	+-----+
8	
9	+-----+
10	MasterCard
11	+-----+
12	
13	+-----+
14	Diners Club
15	+-----+
16	
17	
18	+-----+
19	EXIT
20	+-----+

Screen Transition: See Figure 5-9.

Screen TN5734. Pay Which Credit Line Or Loan

```
1111111111222222222233333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 | Which would you like to pay?      | 2
3 |                                     | 3
4 |                                     | 4
5 | +-----+                         | 5
6 | |Line of Credit |                 | 6
7 | +-----+                         | 7
8 |                                     | 8
9 | +-----+                         | 9
10 | |Mortgage      |                 | 10
11 | +-----+                         | 11
12 |                                     | 12
13 | +-----+                         | 13
14 | |Other Loan    |                 | 14
15 | +-----+                         | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+
    | EXIT |
+-----+
```

Screen Transition: See Figure 5-9.

Screen TN5740. Transfer Source - All Categories

1111111111222222222233333333334			
1234567890123456789012345678901234567890			
1	Where shall I get the money for this	1	
2	transfer?	2	
3		3	
4	Checking/	Savings	4
5	Current	Visa	5
6			6
7		Money	7
8		Market	8
9			9
10		Time	10
11		Deposits	11
12			12
13		Diners	13
14		Club	14
15			15
16		Line of	16
17		Credit	17
18			18
19		Loan	19
20			20
		EXIT	

Screen Transition: See Figure 5-2.

Screen TN5741. Transfer Source - Savings

```
111111111122222222223333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 | Where shall I get the money from? | 2
3 |                                     | 3
4 | +-----+ | 4
5 | Savings | | 5
6 | +-----+ | 6
7 | +-----+ | 7
8 | Money Market | | 8
9 | +-----+ | 9
10 | +-----+ | 10
11 | Time Deposits | | 11
12 | +-----+ | 12
13 | +-----+ | 13
14 | Other Savings and Investments | | 14
15 | +-----+ | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+
+-----+
| EXIT |
+-----+
```

Screen Transition: See Figure 5-2.

Screen TN5742. Transfer Source - Credit Cards

```
111111111122222222223333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 | Where shall I get the money from? | 2
3 |                                     | 3
4 |                                     | 4
5 | +-----+ | 5
6 | | Visa | | 6
7 | +-----+ | 7
8 |                                     | 8
9 | +-----+ | 9
10 | | MasterCard | | 10
11 | +-----+ | 11
12 |                                     | 12
13 | +-----+ | 13
14 | | Diners Club | | 14
15 | +-----+ | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+
+-----+
| EXIT |
+-----+
```

Screen Transition: See Figure 5-2.

Screen TN5743. Transfer Source - Loans

1111111111222222222233333333334		
1234567890123456789012345678901234567890		
1	+	1
2	Where shall I get the money from?	2
3		3
4		4
5		5
6	+	6
7	Line of Credit	7
8	+	8
9		9
10		10
11		11
12	+	12
13	Loan	13
14	+	14
15		15
16		16
17		17
18		18
19	EXIT	19
20	+	20

Screen Transition: See Figure 5-2.

Screen TN5745. Pay How Much (Two Buttons)

```

111111111122222222223333333334
123456789012345678901234567890
+-----+
1 | How much would you like to pay? | 1
2 |XXXXXXXXXXXXXXXXXXXXX| 2 |destacct_desc6
3 |XXXXXXXXXXXXXXXXXXXXX?| 3 |destacct_no6
4 | | 4
5 | | 5
6 |-----+-----+ 6
7 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 7 |pay_ball
8 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 8 |Balance_1
9 |-----+-----+ 9
10 | | 10
11 | | 11
12 |-----+-----+ 12
13 | A Different Amount | 13
14 |-----+-----+ 14
15 | | 15
16 | | 16
17 | | 17
18 | | 18
19 | | 19
20 | | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
destacct_desc6	O	X(18)	V	Display one of the following based on the destination Product Category: 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

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Standard Data Elements: Screen TN5745 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
destacct_no6	O	X(22)	V	For ICC Card Class 91, display from the profile the account number for the destination account chosen.
pay_bal1	O	X(34)	L	See Table 5-1 for text to display.
Balance_1	O	X(25)	L	Display the balance received in Message 4501 as described in Table 5-1.

Screen Transition: See Figure 5-10.

Comments: Although not represented accurately here, the heights should be the same for both of the full-length buttons on this screen.

Screen TN5746. Pay How Much (Three Buttons)

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | How much would you like to pay to | 1
2 | XXXXXXXXXXXXXXXXXXXX | 2 destacct_desc6
3 | XXXXXXXXXXXXXXXXXXXX? | 3 destacct_no6
4 | | 4
5 | +-----+ | 5
6 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 6 pay_bal2
7 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 7 Balance_2
8 | +-----+ | 8
9 | +-----+ | 9
10 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 10 pay_bal3
11 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 11 Balance_3
12 | +-----+ | 12
13 | +-----+ | 13
14 | A Different Amount | 14
15 | +-----+ | 15
16 | | 16
17 | | 17
18 | | 18
19 | | 19
20 | | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
destacct_desc6	O	X(18)	V	Display one of the following based on the destination Product Category: 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
destacct_no6	O	X(22)	V	For ICC Card Class 91, display from the profile the account number for the destination account chosen.

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Standard Data Elements: Screen TN5746 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
pay_bal2	O	X(34)	L	See Table 5-1 for text to display.
Balance_2	O	X(25)	L	Display the first of two valid balances received in Message 4501 as described in Table 5-1.
pay_bal3	O	X(34)	L	See Table 5-1 for text to display.
Balance_3	O	X(25)	L	Display the second of two valid balances received in Message 4501 as described in Table 5-1.

Screen Transition: See Figure 5-10.

Comments: Although not represented accurately here, the heights of all three full-length buttons on this screen should be the same.

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Screen TN5750. Make Payment In Which Currency?

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1| Which currency do you want to use to | 1
2| make this payment?                  | 2
3|                                     | 3
4|                                     | 4
5|                                     | 5
6| +-----+                          | 6
7| |XXXXXX|                          | 7 currency1
8| +-----+                          | 8
9|                                     | 9
10|                                    | 10
11|                                    | 11
12| +-----+                          | 12
13| |XXXXXX|                          | 13 currency2
14| +-----+                          | 14
15|                                    | 15
16|                                    | 16
17|                                    | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
currency1	O	X(6)	L	For the first currency code returned for the destination account, display the appropriate "Currency Descriptor" from the Session Currency Table returned in Message 4604.
currency2	O	X(6)	L	For the second currency code returned for the destination account, display the appropriate "Currency Descriptor" from the Session Currency Table returned in Message 4604.

Screen Transition: See Figure 5-10.

Comments: This screen is used only when a customer is going to make a transfer payment, and more than one currency code is associated with balances returned in response to the Balance Inquiry message for the destination Product Type.

STR 45151-S

Screen TN5751. Exceeded Limit For Transfer/Payment - Off-Us

```
1111111111222222222233333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 | I'm sorry. The amount you entered | 6
7 | is more than I can transfer       | 7
8 | from that account.                | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 | May I help you with something else? | 13
14 |                                    | 14
15 | +-----+          +-----+      | 15
16 | | Yes |          | No |          | 16
17 | +-----+          +-----+      | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
    |                                     |
    +-----+          +-----+      |
    | EXIT |          |          |      |
    +-----+          +-----+      |
+-----+
```

Screen Transition: See Figure 5-6.

STR 45507-S

Screen TN5751a. Exceeded Limit For Transfer/Payment - On-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 | I'm sorry. The amount you entered | 6
7 | is more than I can XXXXXXXX      | 7 trans_pay2
8 | from that account.                | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 | May I help you with something else? | 13
14 |                                    | 14
15 | +-----+          +-----+    | 15
16 | | Yes  |          | No  |        | 16
17 | +-----+          +-----+    | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
trans_pay2	O	X(8)	V	<p>If the CA Category of the destination Product Type picked by the customer is "Checking and Current", or "Savings and Investments", then display "transfer".</p> <p>Else, if the CA Category of the destination Product Type picked by the customer is "Credit Cards" or "Loans and Other Credit", then display "pay".</p>

Screen Transition: See Figure 5-6.

STR 45507-S

5.6 Processes

This section shows the processes for the Transfer application.

PRC TN5760. Build Select Payment List

For Card Class 91, a set of Default Payment Amounts (up to two per Product Type Category) can be returned in response to the Balance Inquiry message 4501. If received, these are offered to the customer as a way to easily pay the amount that they owe, as a minimum payment or the total amount owed.

Determine the number of valid payment elements for the Destination Product Type returned. In order for a payment element to be valid, it must appear in Table 5-1, and the balance returned must be a positive amount (that is, the customer owes money to Citibank, not the other way around.) Zero (0) is not a valid payment amount in this context.

Once the list of valid amounts has been built, the customer is presented with a screen showing one or two Default Payment Amounts. The screen also offers the customer the choice of entering "A Different Amount". If no valid amounts are returned, the customer is taken to the appropriate Transfer Amount Entry pad to specify the amount he/she wishes to pay.

Screen Transition: See Figure 5-10.

Chapter 6

Common Screens and Procedures

This chapter defines the screens and procedures shared by more than one of the other applications in this APS.

This chapter covers the following:

- Supported ESP Messages (Section 6.1)
- Flowcharts (Section 6.2)
- Special Tables (Section 6.3)
- Screens (Section 6.4)
- Processes (Section 6.5)

6.1 Supported ESP Messages

The Common Screens and Procedures use no external service provider messages.

6.2 Flowcharts

This section shows the flowcharts for the Commons Screens and Procedures.

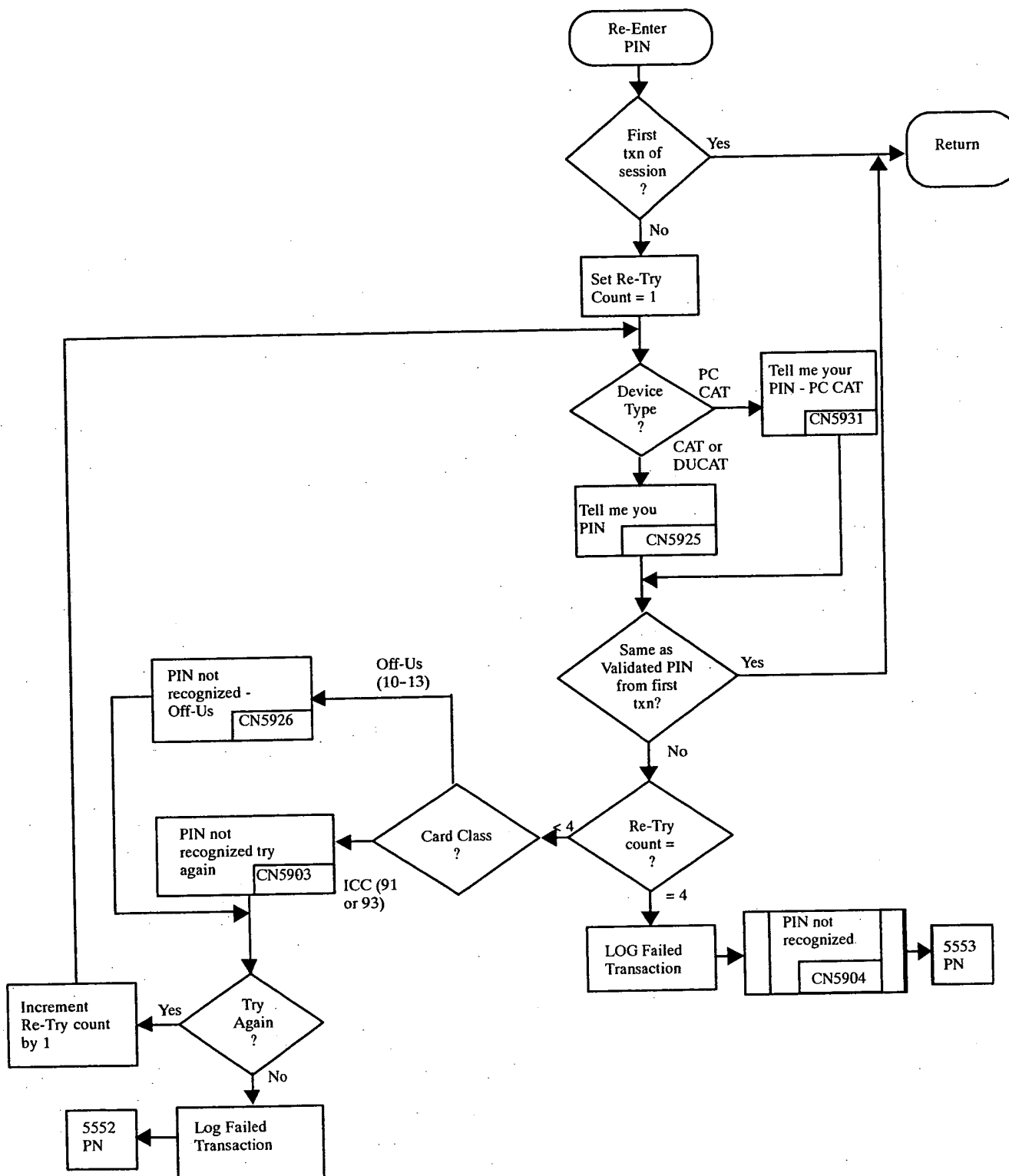


Figure 6-1. Reenter PIN (Sheet 1 of 10)

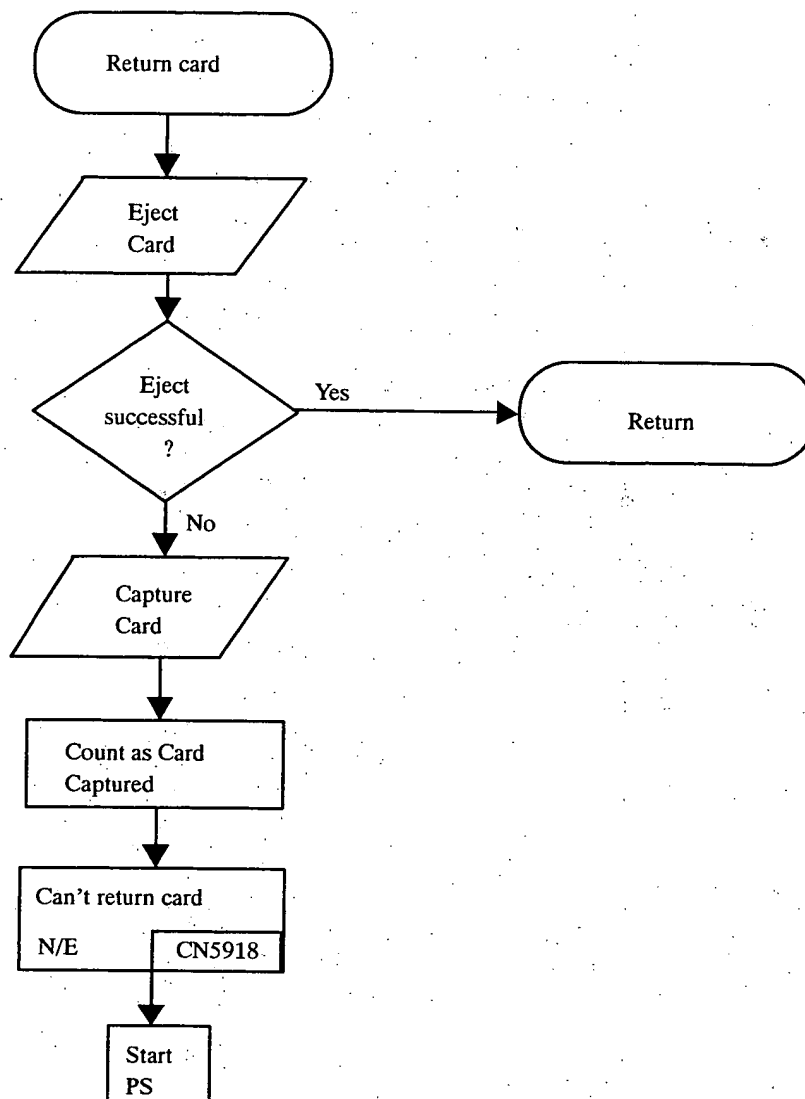


Figure 6-2. Return Card (Sheet 2 of 10)

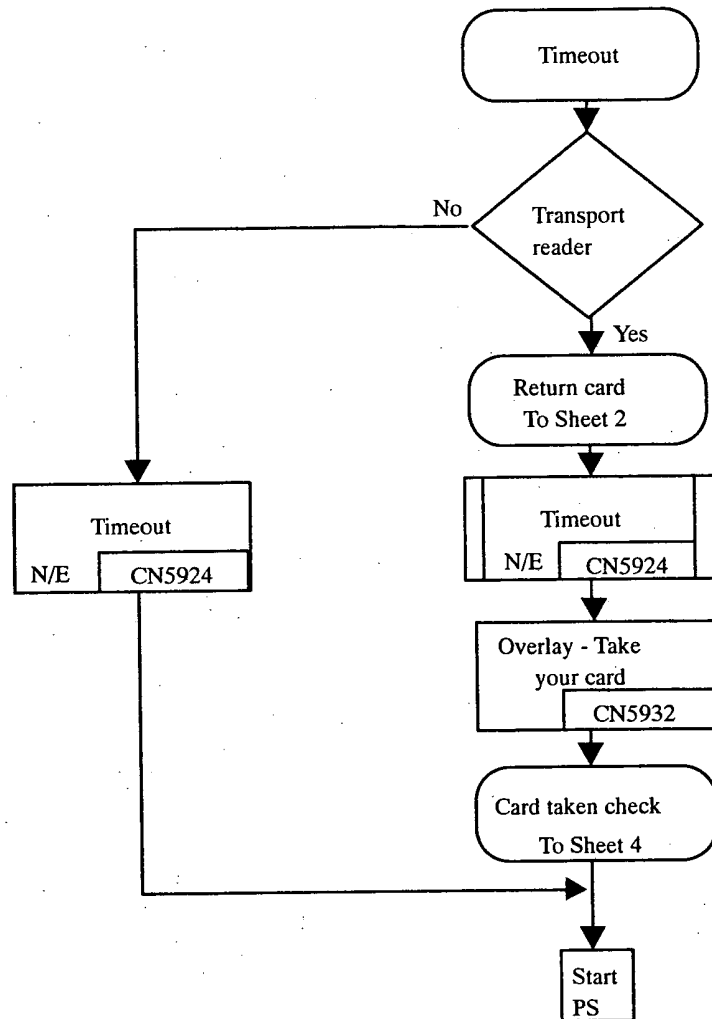
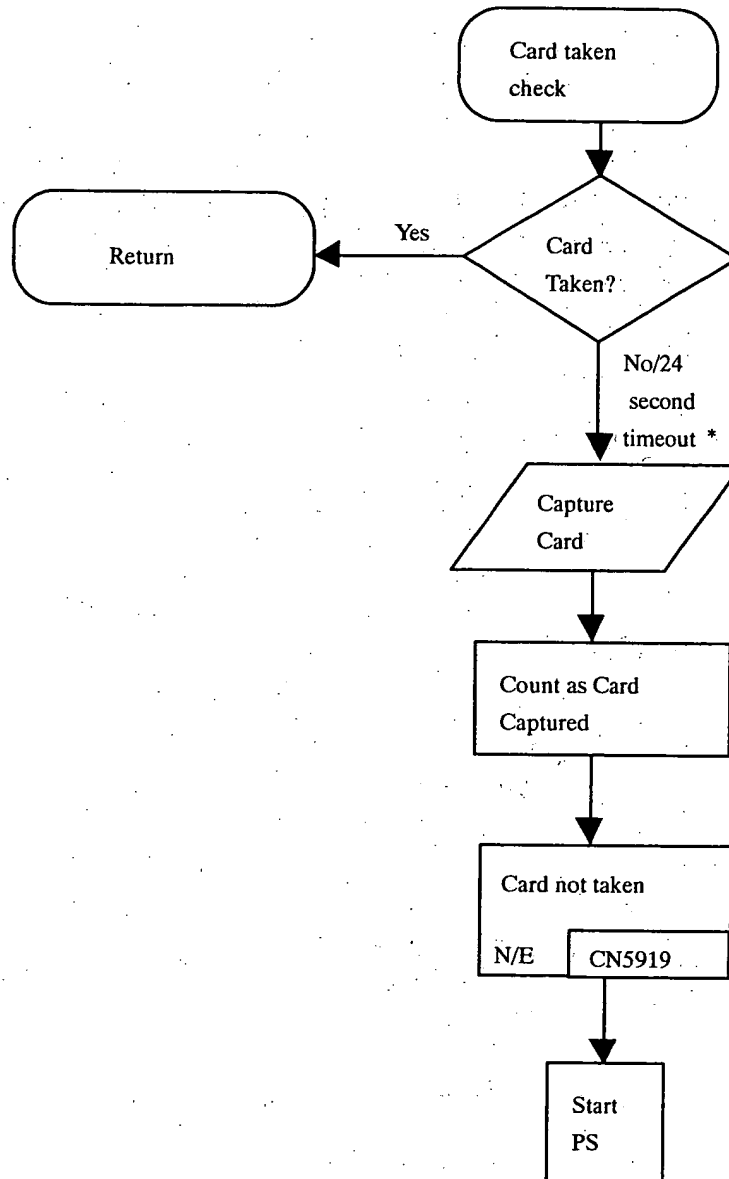


Figure 6-3. Timeout (Sheet 3 of 10)



* Sound acoustical signal 5 seconds after card is ejected.

Figure 6-4. Card Taken Check (Sheet 4 of 10)

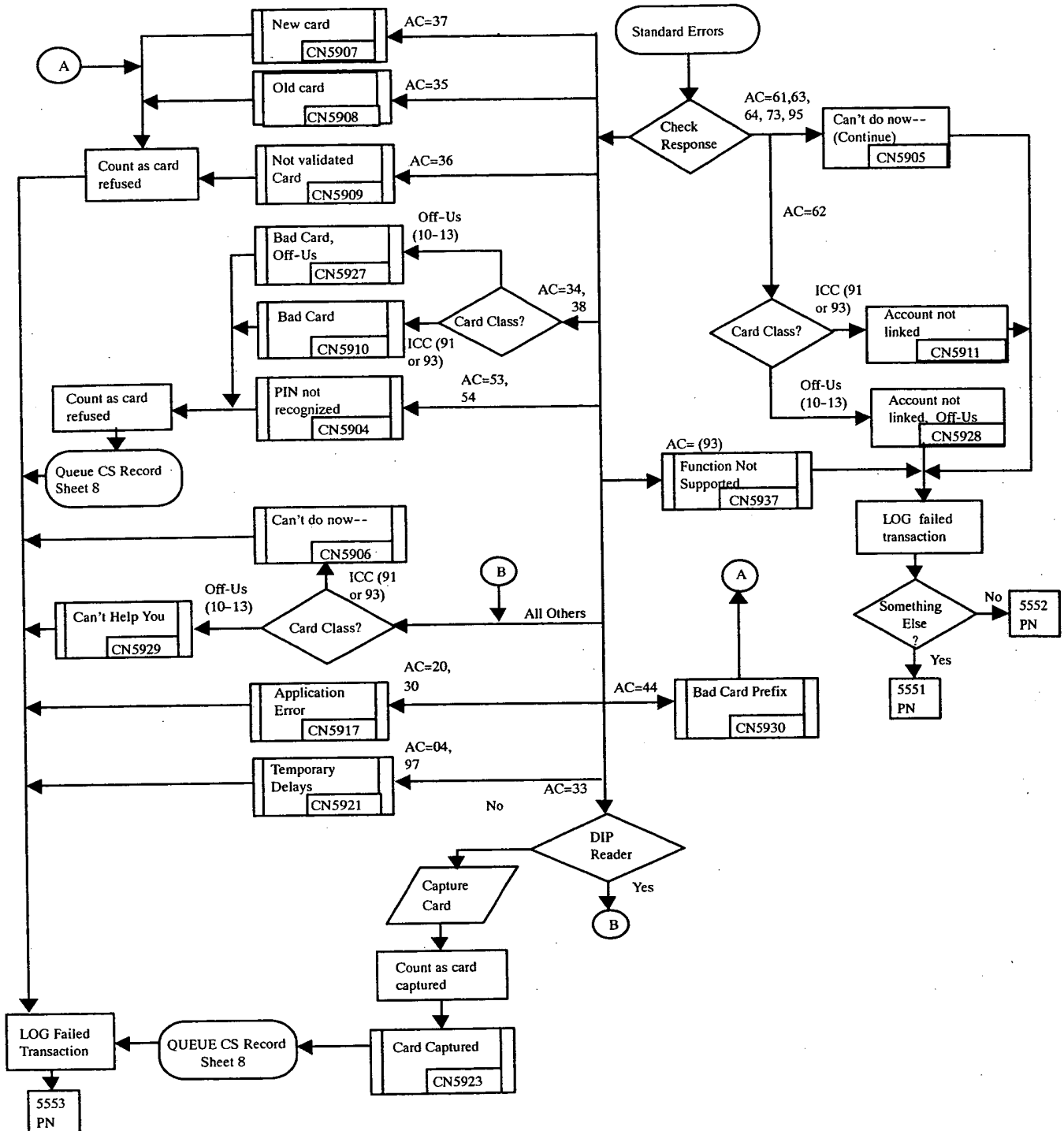


Figure 6-5. Standard Errors (Sheet 5 of 10)

STR 44542-S

STR 45207-S

STR 44803-S

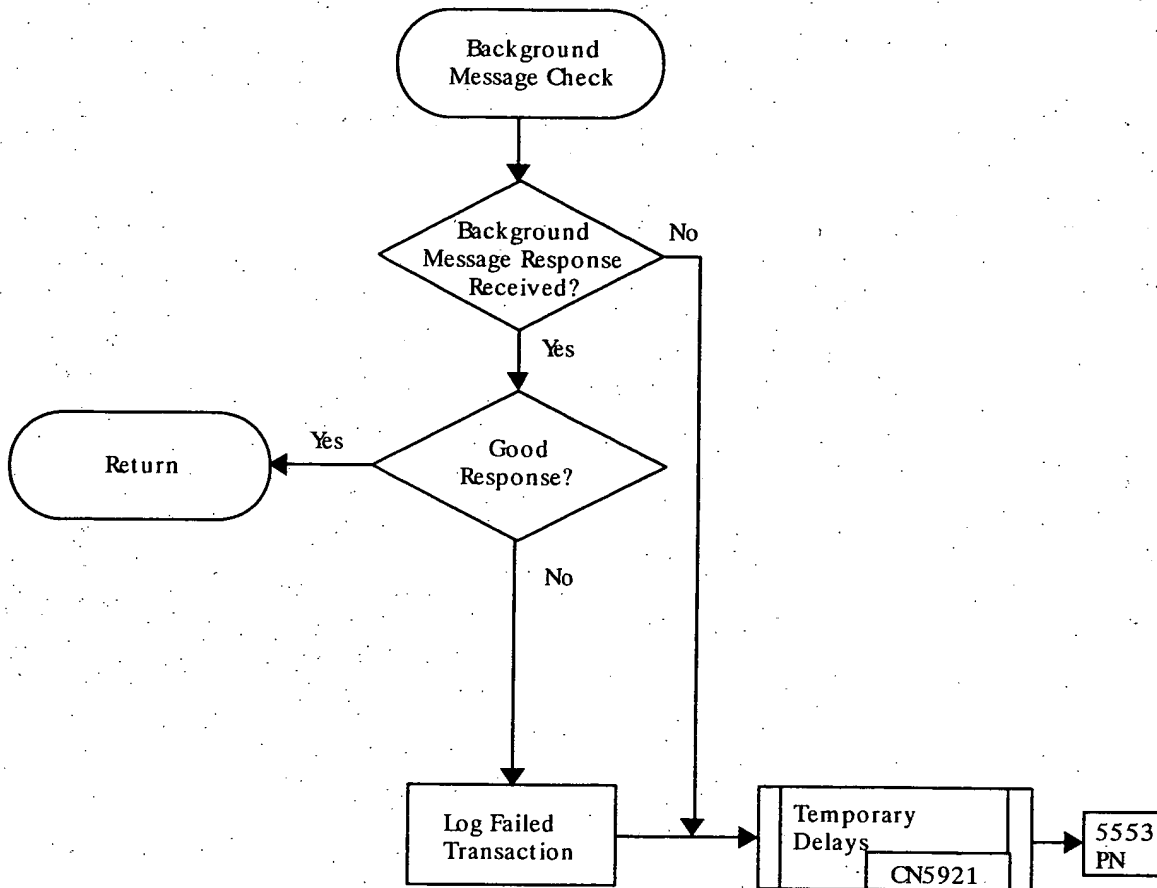


Figure 6-6. Background Message Check (Sheet 6 of 10)

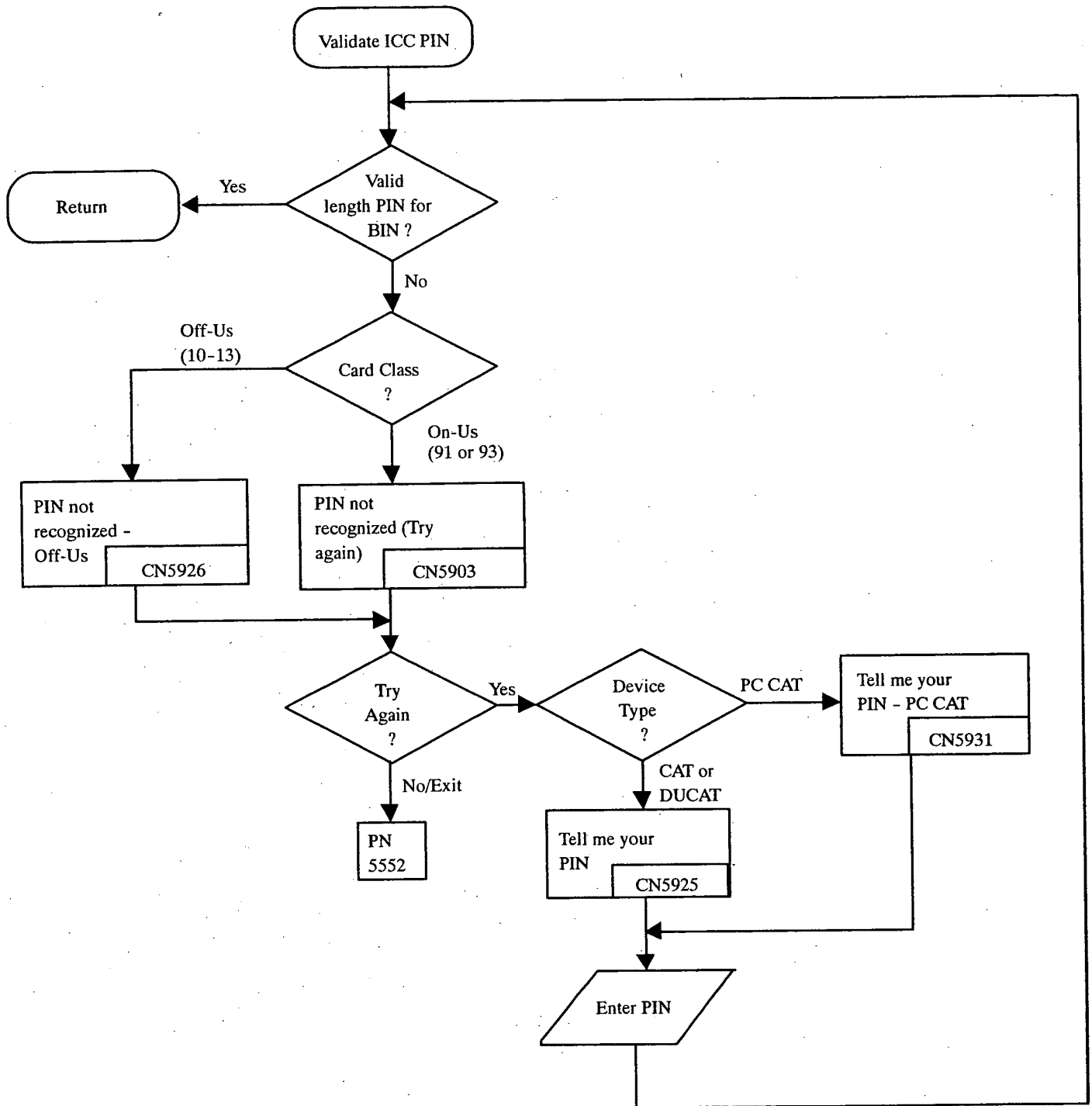


Figure 6-7. Validate ICC PIN (Sheet 7 of 10)

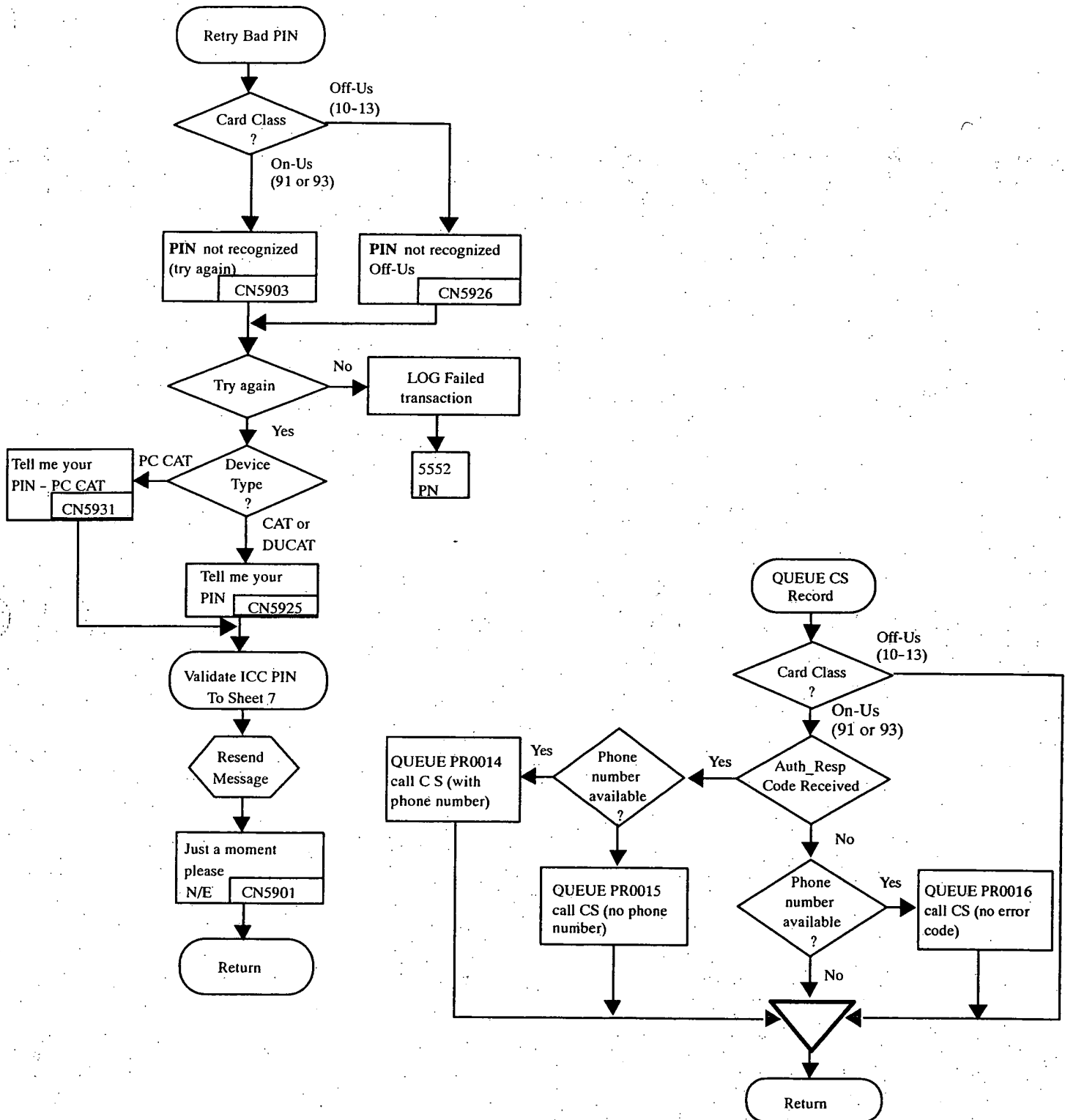


Figure 6-8. Standard Errors - Continued (Sheet 8 of 10)

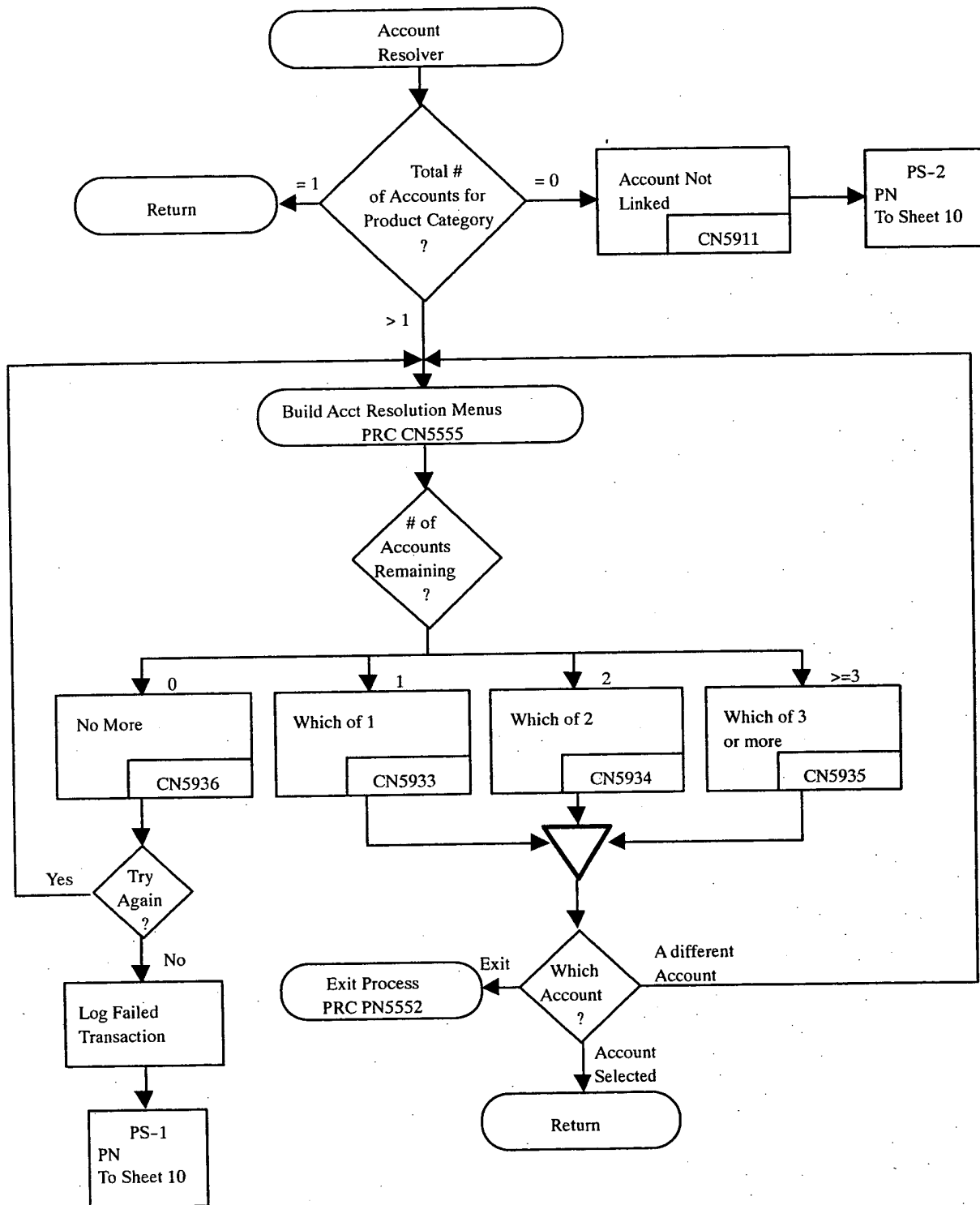


Figure 6-9. Account Resolver (Sheet 9 of 10)

STR 46744-S

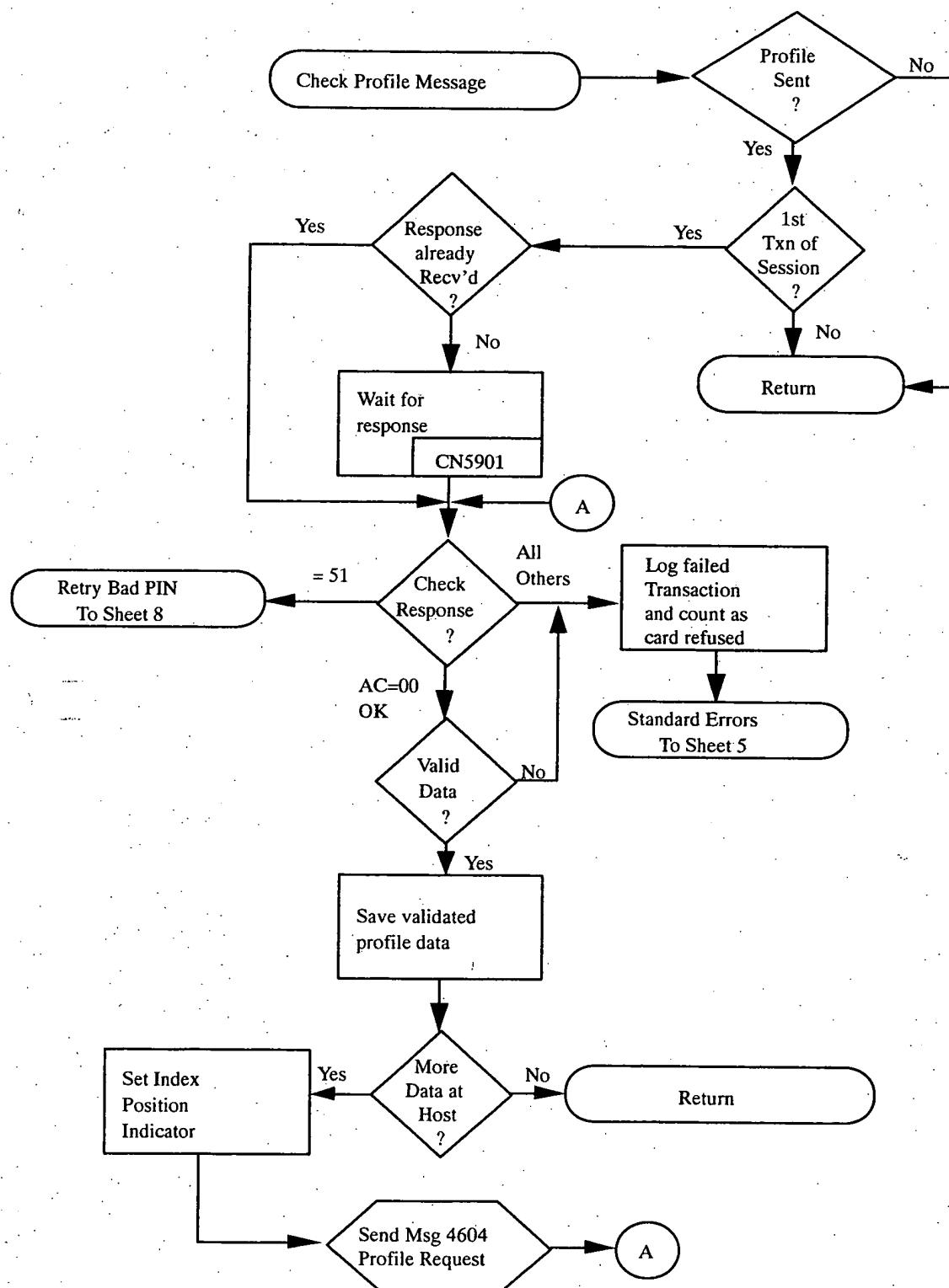


Figure 6-10. Check Profile Message (Sheet 10 of 10)

6.3 Special Tables

This section shows the tables for the Common application.

Table 6-1 shows all of the balances that can be shown for each product. The order that they are listed here is the order in which they should appear on the screen, *if they are received*. Also shown are the ID and field name for each balance as they are indicated in the MLI document.

For Balance Inquiry (BN), all balances received are shown.

After a withdrawal/cash advance, only the balances indicated under the "WN" heading are shown.

After a Transfer, the balances indicated under "TN from" are shown for the source account. The balances indicated under "TN to" are shown for the destination account.

When space and placement require two lines per descriptor, refer to Table 6-2 to know where to break the line.

For balance descriptors containing a date, if the date is not returned with the balance, do not display "on <date>".

Use the following balance text descriptors for Off-Us Generic screens, unless they are already specified as part of the screen's SDEs.

Checking or Savings:	Current Balance	(7106)	"on deposit"
	Available Balance	(7104)	"available now"
Credit:	Available Credit Amount	(7108)	"total credit available"
	Cash Advance Amount	(7140)	"cash advance available"

STR 44543-S
STR 48214-S

Table 6-1. Balance Text Descriptors

CA Category	Product Category	ID	Field Name	Screen Text (Zero or Positive/ Negative Balance)	BN	W N	TN from	TN to
Checking and Current								
	Checking/Current	7106	Current Balance	on deposit/ amount you owe	•	•	•	•
		7104	Available Balance	available now	•	•	•	•
		7121	Credit Line Amount	credit line	•			
		7184	Overdraft Used	credit line used	•			
		7108	Available Credit Amount	available credit	•			
Savings and Investments								
	Savings	7106	Current Balance	on deposit/ amount you owe	•	•	•	•
		7104	Available Balance	available now	•	•	•	•
	Money Market	7106	Current Balance	on deposit/ amount you owe	•	•	•	•
		7104	Available Balance	available now	•	•	•	•
	Time Deposits	7151	Principal Amount	amount invested	•			
		7414	Maturity Date	maturity date	•			
		7148	Maturity Value	value at maturity	•			
		7261	Product Term	term	•			
		7106	Current Balance	on deposit	•	•	•	•
		7104	Available Balance	available now	•	•	•	•
	Other [Savings and Investments]	7106	Current Balance	on deposit	•	•	•	•
		7104	Available Balance	available now	•	•	•	•

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STR 46740-S

Table 6-1. Balance Text Descriptors (Cont)

CA Category	Product Category	ID	Field Name	Screen Text (Zero or Positive/ Negative Balance)	BN	W N	TN from	TN to
Loans and Other Credit								
	Line of Credit (note: also used for Overdraft)	7112	Unpaid Balance	amount you owe / amount we owe you	•	•	•	•
		7108	Available Credit Amount	available now	•	•	•	•
		7121	Credit Line Amount	credit line	•			
		7181	Latest Payment Amount	last payment made	•			
		7424	Latest Payment Date	on <date>	•			
		7114	Next Payment Amount	next payment due	•			
		7401	Next Payment Date	on <date>	•			
	Mortgages	7151	Principal Amount	original loan amount	•			
		7062	Unpaid Principal	amount you owe	•			
		7114	Next Payment Amount	next payment due	•			
		7401	Next Payment Date	on <date>	•			
		7149	Monthly Payment	scheduled payment amount	•			
		7181	Latest Payment Amount	last payment made	•			
		7424	Latest Payment Date	on <date>	•			
		7113	Penalty Amount	late charges due	•			
		7188	Past Due Amount	past due amounts	•			
	Other Loans	7151	Principal Amount	original loan amount	•			
		7112	Unpaid Balance	amount you owe / amount we owe you	•			
		7114	Next Payment Amount	next payment due	•			
		7401	Next Payment Date	on <date>	•			
		7181	Latest Payment Amount	last payment made	•			
		7424	Latest Payment Date	on <date>	•			
		7600	Interest Rate	interest rate	•			
		7612	Effective Interest Rate	A.P.R.	•			

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Table 6-1. Balance Text Descriptors (Cont)

CA Category	Product Category	ID	Field Name	Screen Text (Zero or Positive/ Negative Balance)	BN	W N	TN from	TN to
Credit Cards								
	Visa MasterCard	7108	Available Credit Amount	available credit	•	•	•	•
		7140	Cash Advance Amount	cash advance available	•	•	•	•
		7106	Current Balance (currency 1)	amount you owe / amount we owe you	•			
		7106	Current Balance (currency 2 - for dual currency)	amount you owe / amount we owe you	•			
		7120	Last Bill Balance	last statement balance	•			
		7181	Latest Payment Amount	last payment made	•			
		7424	Latest Payment Date	on <date>	•			
		7192	Minimum Amount Due	minimum payment due	•			
		7401	Next Payment Date	on <date>	•			
		7121	Credit Line Amount	credit limit	•			
	Diners Club	7106	Current Balance (currency 1)	amount you owe / amount we owe you	•	•	•	•
		7106	Current Balance (currency 2 - for dual currency)	amount you owe / amount we owe you				
		7108	Available Credit Amount	available now	•	•	•	•
		7140	Cash Advance Amount	cash advance available	•			
		7121	Credit Line Amount	credit limit	•			
		7120	Last Bill Balance	balance on last statement	•			
		7181	Latest Payment Amount	last payment made	•			
		7424	Latest Payment Date	on <date>	•			
		7114	Next Payment Amount	total due	•			
		7401	Next Payment Date	on <date>	•			

STR 44543-S

STR 46741-S

Table 6-2 shows how the text for each of the Balance Descriptors from Table 6-1 should be laid out when they have to be split across two lines. The ID shown refers to the balance as indicated in the MLI publication. The variable names shown (where N = a number from 1 to N) are the same across all of the functional applications that display balances—BN, WN and TN.

For a description of date formatting, see Appendix NO TAG.

Table 6-2. Layout Specification for Balance Text Descriptors

ID	bal_txtNa	bal_txtNb
7612	A.P.R.	
7151	amount invested	
7112 7106	amount we owe you	
7106 7112 7062	amount you owe	
7108	available credit	
7108 7104	available now	
7120	balance on	last statement
7140	cash advance available	
7121	credit limit	
7268 7121	credit line	
7184	credit line used	
7600	interest rate	
7181	last payment made	on <date>
7120	last statement balance	
7113	late charges due	
7414	maturity date	
7192	minimum payment due	on <date>
7114	next payment due	on <date>
7106	on deposit	
7151	original loan amount	
7188	past due amounts	
7149	scheduled payment amount	
7261	term	
7108	total credit available	
7114	total due	on <date>
7148	value at maturity	

STR 46741-S

6.4 Screens

This section shows the screens and standard data elements for the Common Screens and Procedures.

Screen CN5901. Just A Moment, Please

111111111122222222223333333334		
1234567890123456789012345678901234567890		
1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9	I'm working on it.	9
10		10
11	Just a moment, please.	11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 6-8, Figure 6-10, Figure 2-8, Figure 2-12,
Figure 3-3, Figure 3-6, Figure 4-3, Figure 4-5, Figure 5-6.

Screen CN5903. PIN Not Recognized (Try Again)

```

11111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 | I'm sorry. I didn't recognize that | 7
8 | Personal Identification Number.    | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 | Would you like to try again?      | 13
14 |                                    | 14
15 | +-----+          +-----+    | 15
16 | | Yes  |          | No  |        | 16
17 | +-----+          +-----+    | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Screen Transition: See Figure 6-1, Figure 6-7, Figure 6-8, Figure 2-9.

Screen CN5904. PIN Not Recognized

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 | 1 | 1 |
2 | 2 | 2 |
3 | 3 | 3 |
4 | 4 | I'm sorry. You have tried to enter | 4 |
5 | 5 | your Personal Identification Number | 5 |
6 | 6 | too many times. | 6 |
7 | 7 | | 7 |
8 | 8 | Please call your local Customer | 8 |
9 | 9 | Service. XXXXXXXXXXXXXXXXXXXX | 9 | phone_txt1
10 | 10 | XXXXXXXXXXXXXXXXXXXX | 10 | phone_txt2/phone_txt3
11 | 11 | | 11 |
12 | 12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 | cs_name
13 | 13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 | phone_number
14 | 14 | | 14 |
15 | 15 | | 15 |
16 | 16 | | 16 |
17 | 17 | | 17 |
18 | 18 | | 18 |
19 | 19 | | 19 |
20 | 20 | | 20 |
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
phone_txt1	O	X(20)	L	<p>If a phone number has not been received, leave blank.</p> <p>If a phone number has been received, and it can be called collect, display: "You may call collect".</p> <p>If a phone number has been received, and it cannot be called collect, display: "You may call them at".</p>
phone_txt2	O	X(24)	L	<p>If a phone number has not been received, leave blank.</p> <p>If a phone number has been received, and it can be called collect, display: "using this phone number:".</p> <p>If a phone number has been received, and it cannot be called collect, display: "this phone number:".</p>

Standard Data Elements: Screen CN5904 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
phone_txt3	O	X(1)	L	<p>If a phone number has not been received, leave blank.</p> <p>If a phone number has been received, and it can be called collect, leave blank.</p> <p>If a phone number has been received, and it cannot be called collect, leave blank.</p>
cs_name	O	X(25)	V	Display the name of the customer service unit associated with this card prefix. If no name is defined, leave blank.
phone_number	O	X(25)	L	If a customer service phone number is available for this card prefix, display it. Otherwise, leave blank.

Screen Transition: See Figure 6-1, Figure 6-5.

Comments: A telephone number can be called collect only if the local configuration flag at the CAT (indicating if collect calls are allowed out of the acquiring country) and the flag in the card prefix table entry from Message 4117 (indicating if the phone number will accept collect calls) *both* indicate that collect calls are possible.

Screen CN5905. Can't Do Now (Continue)

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | I'm sorry. I can't do that right now. | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13| May I help you with something else? | 13
14|                                     | 14
15| +-----+          +-----+ | 15
16| | Yes |          | No | | 16
17| +-----+          +-----+ | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Screen Transition: See Figure 6-5, Figure 5-6.

STR 44804-S

Screen CN5906. Can't Do Now

```
111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | I'm sorry. I can't do that right now. | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
```

Screen Transition: See Figure 6-5.

STR 44804-S

Screen CN5907. New Card

1111111111222222222233333333334
1234567890123456789012345678901234567890

1		1
2		2
3		3
4		4
5		5
6		6
7	I'm sorry. You are using your new	7
8	card.	8
9		9
10	Please start over using your old card.	10
11		11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 6-5.

Screen CN5908. Old Card

```
1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 | I'm sorry.  You are using your old | 7
8 | card.  It can no longer be used.   | 8
9 |                                     | 9
10| Please start over using your new card. | 10
11|                                     | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
```

Screen Transition: See Figure 6-5.

Screen CN5909. Not Validated Card

```
      1111111112222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 | I'm sorry. I can't do that right now. | 6
7 |                                     | 7
8 | Your card has to be validated before  | 8
9 | it can be used.                      | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
```

Screen Transition: See Figure 6-5.

Screen CN5910. Bad Card

```

11111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | I'm sorry. I can't do that right now. | 1
2 |                                     | 2
3 | I don't recognize that card.         | 3
4 |                                     | 4
5 | Please call your local Customer      | 5
6 | Service. XXXXXXXXXXXXXXXXXXXXXXXX   | 6 phone_txt1
7 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    | 7 phone_txt2/phone_txt3
8 |                                     | 8
9 |           XXXXXXXXXXXXXXXXXXXXXXXX   | 9 cs_name
10 |          XXXXXXXXXXXXXXXXXXXXXXXX   | 10 phone_number
11 |                                     | 11
12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    | 12 cs_txt1
13 | XXXXXXXXXXXXXXXXXXXXXXXX           | 13 cs_txt2/Auth_Resp_Cde/cs_txt3
14 |                                     | 14
15 |                                     | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
phone_txt1	O	X(20)	L	<p>If a phone number has not been received, leave blank.</p> <p>If a phone number has been received, and it can be called collect, display: "You may call collect".</p> <p>If a phone number has been received, and it cannot be called collect, display: "You may call them at".</p>

STR 45686-S

Standard Data Elements: Screen CN5910 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
phone_txt2	O	X(24)	L	<p>If a phone number has not been received, leave blank.</p> <p>If a phone number has been received, and it can be called collect, display: "using this phone number:".</p> <p>If a phone number has been received, and it cannot be called collect, display: "this phone number:".</p>
phone_txt3	O	X(1)	L	<p>If a phone number has not been received, leave blank.</p> <p>If a phone number has been received, and it can be called collect, leave blank.</p> <p>If a phone number has been received, and it cannot be called collect, leave blank.</p>
cs_name	O	X(25)	V	Display the name of the customer service unit associated with this card prefix. If no name is defined, leave blank.
phone_number	O	X(25)	L	If a customer service phone number is available for this card prefix, display it. Otherwise, leave blank.
cs_txt1	O	X(30)	L	If Auth_Resp_Cde was received, display "Please give them the following".
cs_txt2	O	X(12)	L	If Auth_Resp_Cde was received, display "number: ICC-".
Auth_Resp_Cde	O	X(5)	L	If Auth_Resp_Cde was received, display the Auth_Resp_Cde returned from the FEP.
cs_txt3	O	X(1)	L	If Auth_Resp_Cde was received, display ".".

Screen Transition: See Figure 6-5.

Comments: See Comments for Screen CN5904.

Standard Data Elements: Screen CN5911 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
suffix_acct14	O	X(1)	V	Display one of the following, based on the Product Category Code element returned in the profile response: 1 - For Checking/Current - leave blank 2 - For Savings - leave blank 3 - For Money Market - leave blank 4 - For Time Deposit - leave blank 5 - For Savings/Investment - leave blank 6 - For a Line of Credit - leave blank 7 - For a Mortgage - leave blank 8 - For Loans - leave blank 9 - For Visa - leave blank 10 - For MasterCard - leave blank 11 - For Diners Club - leave blank

Screen Transition: See Figure 6-5, Figure 6-9.

STR 44806-S
STR 46562-S

Screen Transition: See Figure 3-2, Figure 5-4.

Screen Transition: See Figure 3-3, Figure 3-7, Figure 4-2.

Screen CN5917. Can't Do Now

```
111111111122222222223333333334
123456789012345678901234567890
+-----+
1|                                     1|
2|                                     2|
3|                                     3|
4|                                     4|
5|                                     5|
6|                                     6|
7|                                     7|
8|                                     8|
9|                                     9|
10| I'm sorry. I can't do that right now. 10|
11|                                     11|
12|                                     12|
13|                                     13|
14|                                     14|
15|                                     15|
16|                                     16|
17|                                     17|
18|                                     18|
19|                                     19|
20|                                     20|
+-----+
```

Screen Transition: See Figure 6-5, Figure 2-8, Figure 2-12.

Screen CN5918. Can't Return Card

111111111122222222223333333334	
1234567890123456789012345678901234567890	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

I'm sorry. I can't return your card
right now.
Please use the phone next to you to
call Customer Service.

Screen Transition: See Figure 6-2.

Screen CN5919. Card Not Taken

1111111111222222222233333333334
1234567890123456789012345678901234567890

1		1
2		2
3		3
4		4
5		5
6	I'm sorry. You haven't taken your	6
7	card.	7
8		8
9	I'm holding your card for your	9
10	protection.	10
11		11
12	Please use the phone next to you to	12
13	call Customer Service.	13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 6-4.

Screen CN5921. Temporary Delays

111111111122222222223333333334
1234567890123456789012345678901234567890

1		1
2		2
3		3
4		4
5		5
6		6
7		7
8	I'm sorry. We are having some	8
9	temporary delays.	9
10		10
11	Please wait a few moments and try	11
12	again.	12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 6-5, Figure 6-6, Figure 2-8, Figure 3-6, Figure 5-6.

Screen CN5923. Card Captured

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1| 1
2| I'm sorry. There is a problem with 2
3| your card. 3
4| 4
5| I'm holding your card for your 5
6| protection. 6
7| 7
8| Please call your local Customer 8
9| Service. XXXXXXXXXXXXXXXXXXXX 9 phone_txt1
10| XXXXXXXXXXXXXXXXXXXXXXXXXXXX 10 phone_txt2/phone_txt3
11| XXXXXXXXXXXXXXXXXXXXXXXXXXXX 11 cs_name
12| XXXXXXXXXXXXXXXXXXXXXXXXXXXX 12 phone_number
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXX 13 cs_txt1
14| XXXXXXXXXXXXXXXXXXXXXXXXXXXX 14 cs_txt2/Auth_Resp_Cde/cs_txt3
15| 15
16| 16
17| 17
18| 18
19| 19
20| 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
phone_txt1	O	X(20)	L	<p>If a phone number has not been received, leave blank.</p> <p>If a phone number has been received, and it can be called collect, display: "You may call collect".</p> <p>If a phone number has been received, and it cannot be called collect, display: "You may call them at".</p>

STR 46586-S

Standard Data Elements: Screen CN5923 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
phone_txt2	O	X(24)	L	<p>If a phone number has not been received, leave blank.</p> <p>If a phone number has been received, and it can be called collect, display: "using this phone number:".</p> <p>If a phone number has been received, and it cannot be called collect, display: "this phone number:".</p>
phone_txt3	O	X(1)	L	<p>If a phone number has not been received, leave blank.</p> <p>If a phone number has been received, and it can be called collect, leave blank.</p> <p>If a phone number has been received, and it cannot be called collect, leave blank.</p>
cs_name	O	X(25)	V	Display the name of the customer service unit associated with this card prefix. If no name is defined, leave blank.
phone_number	O	X(25)	L	If a customer service phone number is available for this card prefix, display it. Otherwise, leave blank.
cs_txt1	O	X(30)	L	If Auth_Resp_Cde was received, display "Please give them the following".
cs_txt2	O	X(12)	L	If Auth_Resp_Cde was received, display "number: ICC-".
Auth_Resp_Cde	O	X(5)	L	If Auth_Resp_Cde was received, display the Auth_Resp_Cde returned from the FEP.
cs_txt3	O	X(1)	L	If Auth_Resp_Cde was received, display ".".

Screen Transition: See Figure 6-5.

Comments: See Comments for Screen CN5904.

Screen CN5924. Timed Out

```
111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     1
2 |                                     2
3 |                                     3
4 |                                     4
5 | I'm sorry. I haven't heard from you 5
6 | for a while.                         6
7 |                                     7
8 | For your protection I won't continue 8
9 | with what I was doing.               9
10|                                     10
11|                                     11
12|                                     12
13|                                     13
14|                                     14
15|                                     15
16|                                     16
17|                                     17
18|                                     18
19|                                     19
20|                                     20
+-----+
```

Screen Transition: See Figure 6-3.

Screen CN5925. Tell Me Your PIN

```

1111111111222222222233333333334.
1234567890123456789012345678901234567890

```

1	Okay. Please tell me your				1
2	Personal Identification Number.				2
3	Then touch ENTER.				3
4					4
5	+-----+				5
6	*****				6 pic
7	+-----+				7
8	QZ	ABC	DEF	ENTER	8
9	1	2	3		9
10					10
11	+-----+				11
12	GHI	JKL	MNO		12
13	4	5	6		13
14					14
15	+-----+				15
16	PRS	TUV	WXY		16
17	7	8	9		17
18					18
19	CLEAR	0		EXIT	19
20	+-----+				20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
pic	I	9(12)		Entry is left to right, typewriter style. Mask input with asterisks.

Screen Transition: See Figure 6-1, Figure 6-7, Figure 6-8, Figure 2-9.

Screen CN5926. PIN Not Recognized, Try Again - Off-Us

```

1111111111222222222233333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 | I'm sorry.  Your bank didn't recognize | 7
8 | that Personal Identification Number.   | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13| Would you like to try again?           | 13
14|                                     | 14
15| +-----+           +-----+       | 15
16| | Yes  |           | No  |           | 16
17| +-----+           +-----+       | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Screen Transition: See Figure 6-1, Figure 6-7, Figure 6-8, Figure 2-9.

Screen CN5927. Bad Card, Off-Us

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 | I'm sorry. I can't do that right now. | 2
3 |                                     | 3
4 | Your bank didn't recognize that card. | 4
5 |                                     | 5
6 | Please call your local Customer      | 6
7 | Service. XXXXXXXXXXXXXXXXXXXXXXXX   | 7 phone_txt1
8 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    | 8 phone_txt2/phone_txt3
9 |                                     | 9
10 |          XXXXXXXXXXXXXXXXXXXXXXXX   | 10 cs_name
11 |          XXXXXXXXXXXXXXXXXXXXXXXX   | 11 phone_number
12 |                                     | 12
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    | 13 cs_txt1
14 | XXXXXXXXXXXXXXXXXXXXXXXX           | 14 cs_txt2/Auth_Resp_Cde/cs_txt3
15 |                                     | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
phone_txt1	O	X(20)	L	<p>If a phone number has not been received, leave blank.</p> <p>If a phone number has been received, and it can be called collect, display: "You may call collect".</p> <p>If a phone number has been received, and it cannot be called collect, display: "You may call them at".</p>

STR 46586-S

Standard Data Elements: Screen CN5927 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
phone_txt2	O	X(24)	L	<p>If a phone number has not been received, leave blank.</p> <p>If a phone number has been received, and it can be called collect, display: "using this phone number:".</p> <p>If a phone number has been received, and it cannot be called collect, display: "this phone number:".</p>
phone_txt3	O	X(1)	L	<p>If a phone number has not been received, leave blank.</p> <p>If a phone number has been received, and it can be called collect, leave blank.</p> <p>If a phone number has been received, and it cannot be called collect, leave blank.</p>
cs_name	O	X(25)	V	Display the name of the customer service unit associated with this card prefix. If no name is defined, leave blank.
phone_number	O	X(25)	L	If a customer service phone number is available for this card prefix, display it. Otherwise, leave blank.
cs_txt1	O	X(30)	L	If Auth_Resp_Cde was received, display "Please give them the following".
cs_txt2	O	X(12)	L	If Auth_Resp_Cde was received, display "number: ICC-".
Auth_Resp_Cde	O	X(5)	L	If Auth_Resp_Cde was received, display the Auth_Resp_Cde returned from the FEP.
cs_txt3	O	X(1)	L	If Auth_Resp_Cde was received, display ".".

Screen Transition: See Figure 6-5.

Comments: See Comments for Screen CN5904.

Screen CN5928. Account Not Linked, Off-Us

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 | I'm sorry. Your bank didn't find | 6
7 | XXXXXXXX on your card.          | 7 acct_desc25/suffix_acct (not shown)
8 |                                     | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 | May I help you with something else? | 13
14 |                                    | 14
15 | +-----+          +-----+ | 15
16 | | Yes |          | No | | 16
17 | +-----+          +-----+ | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc25	O	X(8)	V	Display one of the following, based on the Product Type Code element returned in the response, if present, or otherwise based on the Product Type Code in the request: 001 - "Checking" 004 - "Savings" 014 - "Credit"

STR 44810-S

STR 44537-S

Standard Data Elements: Screen CN5928 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
suffix_acct	O	X(1)	V	Display one of the following, based on the Product Type Code element returned in the response, if present, or otherwise based on the Product Type Code in the request: For Checking - leave blank For Savings - leave blank For Credit - leave blank

Screen Transition: See Figure 6-5.

Screen CN5929. Can't Help You, Off-Us

111111111122222222223333333334
1234567890123456789012345678901234567890

1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9	I'm sorry. I can't help you.	9
10		10
11	Your bank did not accept your request.	11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 6-5.

Screen CN5930. Bad Card Prefix

```
111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | I'm sorry. I can't handle this card | 9
10| yet.                               | 10
11|                                     | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
```

Screen Transition: See Figure 6-5, Figure 2-8.

Screen CN5931. Tell Me Your PIN - PC CAT

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | Okay. Please tell me your         | 9
10| Personal Identification Number.    | 10
11|                                     | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
pic_a	I	9(12)		Entry is from PC CAT PIN Pad.

Screen Transition: See Figure 6-1, Figure 6-7, Figure 6-8, Figure 2-9.

STR 44805-S

Overlay CN5932.Take Your Card

111111111122222222223333333334	
1234567890123456789012345678901234567890	
+-----+	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18 +-----	+----- 18
19	19
Please take your card.	
20 +-----	+----- 20
+-----+	

Screen Transition: See Figure 6-3.

Screen CN5933. Acct Resolver: Which Of 1

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                           | 1
2 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 2 acct_desc10/suffix_acct10(not shown)
3 | XXXXXXXXXXXX | 3 acct_desc10a
4 | | 4
5 | | 5
6 | +-----+ | 6
7 | | 7 See Comments Below
8 | +-----+ | 8
9 | | 9
10 | | 10
11 | | 11
12 | +-----+ | 12
13 | A different XXXXXXXXXXXXXXXXXXXX | 13 acct_desc23/suffix_acct12(not shown)
14 | +-----+ | 14
15 | | 15
16 | | 16
17 | | 17
18 | | 18
19 | | 19
20 | | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc10	O	X(30)	V	For ICC Card Class 91, if the application requiring Account Resolution is Transfer, then- - If the Citibank Account (CA) Category chosen at the beginning of the session = "Checking or Current" and the CA Category of the Destination Product is <i>not</i> "Checking or Current", then display "Which Checking shall I get the".

STR 44808-S

Standard Data Elements: Screen CN5933 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
				<p>Else, display one of the following, based on the Product Category Code element returned in the profile response:</p> <ul style="list-style-type: none"> 1 - "Which Checking/Current?" 2 - "Which Savings?" 3 - "Which Money Market?" 4 - "Which Time Deposit?" 5 - "Which Savings/Investment?" 6 - "Which Line of Credit?" 7 - "Which Mortgage?" 8 - "Which Loan?" 9 - "Which Visa?" 10 - "Which MasterCard?" 11 - "Which Diners Club?"
suffix_acct10	O	X(1)	V	<p>Display one of the following, based on the Product Category Code element returned in the profile response:</p> <ul style="list-style-type: none"> 1 - For Checking/Current - leave blank 2 - For Savings - leave blank 3 - For Money Market - leave blank 4 - For Time Deposit - leave blank 5 - For Savings/Investment - leave blank 6 - For a Line of Credit - leave blank 7 - For a Mortgage - leave blank 8 - For Loan - leave blank 9 - For Visa - leave blank 10 - For MasterCard - leave blank 11 - For Diners Club - leave blank
acct_desc10a	O	X(11)	V	<p>For ICC Card Class 91, if the application requiring Account Resolution is Transfer, then-</p> <p>- If the Citibank Account (CA) Category chosen at the beginning of the session = "Checking or Current" and the CA Category of the Destination Product is <i>not</i> "Checking or Current", then display "money from?".</p> <p>Else, leave blank.</p>

STR 44537-S

STR 46562-S

Standard Data Elements: Screen CN5933 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
resX_descrip_Cent	O	X(22)	L	See Process CN5555 for text to display.
resX_descrip_Top	O	X(22)	L	See Process CN5555 for text to display.
resX_date	O	X(11)	L	See Process CN5555 for text to display.
resX_amount_Cent	O	X(25)	R	See Process CN5555 for text to display.
resX_amount_Top	O	X(25)	R	See Process CN5555 for text to display.
acct_desc23	O	X(18)	V	Display one of the following, based on the Product Category Code element returned in the profile response: <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
suffix_acct12	O	X(1)	V	Display one of the following, based on the Product Category Code element returned in the profile response: <ul style="list-style-type: none"> 1 - For Checking/Current - leave blank 2 - For Savings - leave blank 3 - For Money Market - leave blank 4 - For Time Deposit - leave blank 5 - For Savings/Investment - leave blank 6 - For Line of Credit - leave blank 7 - For Mortgage - leave blank 8 - For Loan - leave blank 9 - For Visa - leave blank 10 - For MasterCard - leave blank 11 - For Diners Club - leave blank

STR 44537-S

STR 44579-S

STR 44808-S

STR 46562-S

STR 48540-S

Screen Transition: See Figure 6-9.

Comments: Five variables are displayed on each Account Resolver button.

The first variable is called `resX_descrip_Cent`, where X is the Account Resolver button number. This button is displayed in the 53x24 character font, vertically centered within the button, left justified.

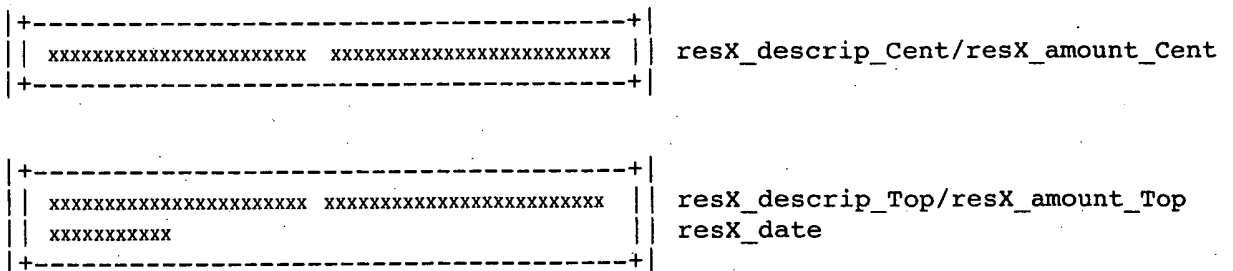
The second variable is called `resX_descrip_Top`, where X is the Account Resolver button number. This button is displayed in the 53x24 character font, on the top line of a two-line button, left justified.

The third variable is called `resX_date`, where X is the Account Resolver button number. This button is displayed in the 53x24 character font, on the bottom line of a two-line button, left justified.

The fourth variable is called `resX_amount_Cent`, where X is this Account Resolver button number. `resX_amount_Cent` is displayed in the 53x24 character font, vertically centered within the button, right justified.

The fifth variable is called `resX_amount_Top`, where X is this Account Resolver button number. `resX_amount_Top` is displayed in the 53x24 character font, on the bottom line of a two-line button, right justified.

When used on a button, there are two possible layouts, shown below:



STR 44579-S
STR 48540-S

Screen CN5934. Acct Resolver: Which Of 2

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                           | 1
2 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 2 acct_desc10/suffix_acct10(not shown)
3 | XXXXXXXXXXXX | 3 acct_desc10a
4 | | 4
5 |-----| 5
6 | | 6 See Comments Below
7 |-----| 7
8 | | 8
9 |-----| 9
10 | | 10 See Comments Below
11 |-----| 11
12 | | 12
13 |-----| 13
14 | A different XXXXXXXXXXXXXXXXXXXX | 14 acct_desc23/suffix_acct12(not shown)
15 |-----| 15
16 | | 16
17 | | 17
18 | | 18
19 | | 19
20 | | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc10	O	X(30)	V	For ICC Card Class 91, if the application requiring Account Resolution is Transfer, then- - If the Citibank Account (CA) Category chosen at the beginning of the session = "Checking or Current" and the CA Category of the Destination Product is <i>not</i> "Checking or Current", then display "Which Checking shall I get the".

STR 44809-S

Standard Data Elements: Screen CN5934 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
				<p>Else, display one of the following, based on the Product Category Code element returned in the profile response:</p> <ul style="list-style-type: none"> 1 - "Which Checking/Current?" 2 - "Which Savings?" 3 - "Which Money Market?" 4 - "Which Time Deposit?" 5 - "Which Savings/Investment?" 6 - "Which Line of Credit?" 7 - "Which Mortgage?" 8 - "Which Loan?" 9 - "Which Visa?" 10 - "Which MasterCard?" 11 - "Which Diners Club?"
suffix_acct10	O	X(1)	V	<p>Display one of the following, based on the Product Category Code element returned in the profile response:</p> <ul style="list-style-type: none"> 1 - For Checking/Current - leave blank 2 - For Savings - leave blank 3 - For Money Market - leave blank 4 - For Time Deposit - leave blank 5 - For Savings/Investment - leave blank 6 - For Line of Credit - leave blank 7 - For Mortgage - leave blank 8 - For Loan - leave blank 9 - For Visa - leave blank 10 - For MasterCard - leave blank 11 - For Diners Club - leave blank
acct_desc10a	O	X(11)	V	<p>For ICC Card Class 91, if the application requiring Account Resolution is Transfer, then-</p> <p>- If the Citibank Account (CA) Category chosen at the beginning of the session = "Checking" and the CA Category of the Destination Product is <i>not</i> "Checking", then display "money from?".</p> <p>Else, leave blank.</p>

STR 44537-S
STR 46562-S

Standard Data Elements: Screen CN5934 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
resX_descrip_Cent	O	X(22)	L	See Process CN5555 for text to display.
resX_descrip_Top	O	X(22)	L	See Process CN5555 for text to display.
resX_date	O	X(11)	L	See Process CN5555 for text to display.
resX_amount_Cent	O	X(25)	R	See Process CN5555 for text to display.
resX_amount_Top	O	X(25)	R	See Process CN5555 for text to display.
acct_desc23	O	X(18)	V	Display one of the following, based on the Product Category Code element returned in the profile response: <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
suffix_acct12	O	X(1)	V	Display one of the following, based on the Product Category Code element returned in the profile response: <ul style="list-style-type: none"> 1 - For Checking/Current - leave blank 2 - For Savings - leave blank 3 - For Money Market - leave blank 4 - For Time Deposit - leave blank 5 - For Savings/Investment - leave blank 6 - For Line of Credit - leave blank 7 - For Mortgage - leave blank 8 - For Loan - leave blank 9 - For Visa - leave blank 10 - For MasterCard - leave blank 11 - For Diners Club - leave blank

Screen Transition: See Figure 6-9.**Comments:** See Comments on Screen CN5933.

STR 44579-S

STR 44809-S

STR 44537-S

STR 46562-S

STR 48540-S

Screen CN5935. Acct Resolver: Which Of 3 Or More

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2	XXXXXXXXXXXX
3	
4	+-----+
5	
6	+-----+
7	+-----+
8	
9	+-----+
10	+-----+
11	
12	+-----+
13	+-----+
14	A different XXXXXXXXXXXXXXXXXXXXXXX
15	+-----+
16	
17	
18	+-----+
19	EXIT
20	+-----+

1 acct_desc10/suffix_acct10(not shown)

2 acct_desc10a

3

4

5 See Comments Below

6

7

8 See Comments Below

9

10

11 See Comments Below

12

13

14 acct_desc23/suffix_acct12(not shown)

15

16

17

18

19

20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc10	O	X(30)	V	For ICC Card Class 91, if the application requiring Account Resolution is Transfer, then- - If the Citibank Account (CA) Category chosen at the beginning of the session = "Checking or Current" and the CA Category of the Destination Product is <i>not</i> "Checking or Current", then display "Which Checking shall I get the".

STR 44809-S

Standard Data Elements: Screen CN5935 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
				<p>Else, display one of the following, based on the Product Category Code element returned in the profile response:</p> <ul style="list-style-type: none"> 1 - "Which Checking/Current?" 2 - "Which Savings?" 3 - "Which Money Market?" 4 - "Which Time Deposit?" 5 - "Which Savings/Investment?" 6 - "Which Line of Credit?" 7 - "Which Mortgage?" 8 - "Which Loan?" 9 - "Which Visa?" 10 - "Which MasterCard?" 11 - "Which Diners Club?"
suffix_acct10	O	X(1)	V	<p>Display one of the following, based on the Product Category Code element returned in the profile response:</p> <ul style="list-style-type: none"> 1 - For Checking/Current - leave blank 2 - For Savings - leave blank 3 - For Money Market - leave blank 4 - For Time Deposit - leave blank 5 - For Savings/Investment - leave blank 6 - For Line of Credit - leave blank 7 - For Mortgage - leave blank 8 - For Loan - leave blank 9 - For Visa - leave blank 10 - For MasterCard - leave blank 11 - For Diners Club - leave blank
acct_desc10a	O	X(11)	V	<p>For ICC Card Class 91, if the application requiring Account Resolution is Transfer, then-</p> <ul style="list-style-type: none"> - If the Citibank Account (CA) Category chosen at the beginning of the session = "Checking" and the CA Category of the Destination Product is <i>not</i> "Checking", then display "money from?". <p>Else, leave blank.</p>
resX_descrip_Cent	O	X(22)	L	See Process CN5555 for text to display.

STR 44537-S

STR 46562-S

Standard Data Elements: Screen CN5935 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
resX_descrip_Top	O	X(22)	L	See Process CN5555 for text to display.
resX_date	O	X(11)	L	See Process CN5555 for text to display.
resX_amount_Cent	O	X(25)	R	See Process CN5555 for text to display.
resX_amount_Top	O	X(25)	R	See Process CN5555 for text to display.
acct_desc23	O	X(18)	V	Display one of the following, based on the Product Category Code element returned in the profile response: <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"
suffix_acct12	O	X(1)	V	Display one of the following, based on the Product Category Code element returned in the profile response: <ul style="list-style-type: none"> 1 - For Checking/Current - leave blank 2 - For Savings - leave blank 3 - For Money Market - leave blank 4 - For Time Deposit - leave blank 5 - For Savings/Investment - leave blank 6 - For Line of Credit - leave blank 7 - For Mortgage - leave blank 8 - For Loan - leave blank 9 - For Visa - leave blank 10 - For MasterCard - leave blank 11 - For Diners Club - leave blank

Screen Transition: See Figure 6-9.

Comments: See Comments on Screen CN5933.

STR 44579-S
STR 44537-S
STR 48540-S

STR 44809-S
STR 46562-S

Screen CN5936. Acct Resolver - No More Linked

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 | I'm sorry. I can't find any other | 5
6 | XXXXXXXXXXXXXXXXXXXX on your    | 6 acct_desc26/suffix_acct11(not shown)
7 | card.                            | 7
8 |                                     | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 | Would you like to try again?    | 13
14 |                                    | 14
15 | +-----+          +-----+    | 15
16 | | Yes  |          | No  |      | 16
17 | +-----+          +-----+    | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
acct_desc26	O	X(18)	V	<p>Display one of the following, based on the Product Category Code element returned in the profile response:</p> <ul style="list-style-type: none"> 1 - "Checking/Current" 2 - "Savings" 3 - "Money Market" 4 - "Time Deposit" 5 - "Savings/Investment" 6 - "Line of Credit" 7 - "Mortgage" 8 - "Loan" 9 - "Visa" 10 - "MasterCard" 11 - "Diners Club"

STR 44811-S

STR 44537-S

STR 46562-S

Standard Data Elements: Screen CN5936 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
suffix_acct11	O	X(1)	V	Display one of the following, based on the Product Category Code element returned in the profile response: 1 - For Checking/Current - leave blank 2 - For Savings - leave blank 3 - For Money Market - leave blank 4 - For Time Deposit - leave blank 5 - For Savings/Investment - leave blank 6 - For Line of Credit - leave blank 7 - For Mortgage - leave blank 8 - For Loan - leave blank 9 - For Visa - leave blank 10 - For MasterCard - leave blank 11 - For Diners Club - leave blank

Screen Transition: See Figure 6-9.

STR 46562-S

6.5 Processes

This section shows the Processes defined for the Common Screens and Procedures.

6.5.1 PRC CN5555. Account Resolution

It is possible that a customer may have more than one product within a given product category. This information will be returned in the profile message response when they use a card which returns a profile. For these customers, account resolution takes place after they have chosen functionality. The screens used for account resolution are CN5933, CN5934, CN5935, and CN5936.

Account Resolution follows this process:

- The number of products for the product category is determined from the profile message.
- If there are no products for the category picked, then an error screen is shown.
- If there are exactly two products for the category, Screen CN5934 is used.
- If there are three or more products for the category, Screen CN5935 is used.
- If the customer chooses "A different <category_name>" (for example, "A different Checking/Current"), then the same base screens are used for the number of products remaining. If there are no products remaining in the list, then the customer is shown Screen CN5936 and given the opportunity to look at the list again.
- If the customer decides to try again, the counter is reset and the account resolution screens are shown again.

Since the Account Resolution screens are intended to be generic, the Global ICC application does not show a customer the name of a given product, even if it is received in a message.

Instead, the following information is seen, depending on what information is returned in the message, and the type of product that is being resolved:

- Account Number
- Account "Nickname"
- Currency Descriptor
- Account Balance
- Date (for example, for Time Deposits, the "Maturity Date" would show if received.)

The following rules apply as to what to display (refer to the Comments on Screen CN5933 to view the text layout on the button):

- For the variables “resX_descrip_Cent” and “resX_descrip_Top”, either an account number or the account “Nickname” must be displayed. If both an account number and a “Nickname” are received, then only the “Nickname” should be displayed. If no “Nickname” is received, the account number should always be displayed.

The only circumstances in which to use the “resX_descrip_Top” variable is when a Date is returned, as with Time Deposits.

- For the variables “resX_amount_Cent” and “resX_amount_Top”:

For CA Categories “Checking or Current” and “Savings and Investments”, display both the Currency Descriptor and the Account Balance. The Account Balance that should be displayed is the “Resolver Balance” received from the Profile message. If this balance is not received, then the Currency Descriptor should be displayed alone.

The only circumstance in which to use the “resX_amount_Top” variable is when a Date is returned, as with Time Deposits.

For CA Categories “Credit Cards” and “Loans”, display only the Currency Descriptor. These will always display in the variable “resX_amount_Cent”.

- If a Resolver Date (ID 7433) is returned as part of the Account Details Table in Message 4604, then display it in the variable “resX_date”. (For a description of how to display dates, please refer to Appendix NO TAG.)

Below are examples of buttons that could appear in Account Resolution:

Example of Checking Account showing an account number:

+-----+		resX_descrip_Cent/resX_amount_Cent	
	99123345	US\$3,267.18	
+-----+			

Example of Money Market showing “Nickname”:

+-----+		resX_descrip_Cent/resX_amount_Cent	
	Michael's College Fund	US\$25,123.23	
+-----+			

Example of Time Deposit:

+-----+		resX_descrip_Top/resX_amount_Top	
	6453765389	US\$	
	12 Dec 1996		
+-----+		resX_date	

STR 44544-S

Chapter 7

Printed Records

An integral part of Global ICC is the printed record which the customer receives from the CAT. This chapter details the printer's defaults, the specific information which should be printed for each transaction, and the formats for printing the data.

This chapter covers the following:

- Printer Defaults (Section 7.1)
- Printer Margins (Section 7.2)
- What to Print for Each Transaction (Section 7.3)
- Special Tables (Section 7.4)
- Formats (Section 7.5)

7.1 Printer Defaults

The following defaults apply:

- Font #32
- Bidirectional printing
- Basic density
- Draft mode
- Single-width characters
- 10.3 characters per inch
- 6 lines per inch

7.2 Printer Margins

To accommodate the different printed record forms of Citicorp/Citibank businesses, variable left, top, and bottom margins are specified for each business that uses Global ICC, based on that business's printed record form, as follows:

- A left margin of 0-8 blank spaces
- A top margin of 1-6 blank lines
- A bottom margin of 0-6 blank lines

Note

Care must be taken in setting the margin variables. Given the maximum form length of 16 lines, the sum of top margin + bottom margin + header + length of the largest record component to be printed, *must be less than 16*.

Printed records are shown in this APS with the largest possible left margin (8 columns). This ensures that even if the left margin is set to the maximum, these record layouts fit on the printed form.

Similarly, the printed record formats are shown starting on line 1. Where they actually start on a record depends on the top margin and on other records that were queued earlier in the session.

The samples given in Section 7.3 show what they would look like if the top margin were set to line 2.

7.3 What to Print for Each Transaction

The information that is printed depends primarily on the transaction information returned from the host. The printed record formats have been broken down into "components" so that a printed record may be assembled from the components based on the data returned.

The following sections show the preferred list of what to print for each transaction.

Cash Withdrawal

This section shows the preferred list of what to print for Cash Withdrawal for Card Classes 91 and 93:

- PR0022 or PR0023 (depending upon receipt of Eqv_Txn_Amt)
- and
- PR0024 or PR0025 or nothing (if two, one, or no balances were returned respectively)

The sample record in Figure 7-1a shows a customer who has an account in British pounds (GBP) withdrawing S\$100 (Singapore dollars) from Checking/Current using an On-Us Card Class 91 or 93. Both new Checking/Current balances were returned.

```

1111111111222222222233333333334444444444555
<margin>1234567890123456789012345678901234567890123456789012
+-----+
1 | DATE           TIME    LOCATION   CARD NUMBER   | 1
2 | 31 OCT 1996    12:17   CH00705    1234XXX896705 | 2
3 |                                     | 3
4 |                                     | 4
5 | GOT S$100 CASH - (#110)           | 5
6 | GBP45.57 WAS DEDUCTED              | 6
7 | FROM CHECKING/CURRENT XXXXXXXXXXXXXXX7890 | 7
8 |                                     | 8
9 | NEW CHECKING/CURRENT BALANCES XXXXXXXXXXXXXXX7890 | 9
10 |                                     | 10
11 |                                     | 11
12 |                                     | 12
13 |                                     | 13
14 |                                     | 14
15 |                                     | 15
16 |                                     | 16
+-----+

```

Figure 7-1.a. Sample Cash Withdrawal Record - For Citicorp Card Classes 91 and 93

STR 46814-S
STR 46819-S

This section shows the preferred list of what to print for Cash Withdrawal for Card Classes other than 91 and 93:

- PR0002 or PR0003 (depending upon receipt of Eqv_Txn_Amt)
- and
- PR0004 or PR0005 or nothing (if two, one, or no Checking or Savings balances were returned)
- or
- PR0006 or PR0007 or nothing (if two, one, or no Credit balances were returned)

The sample record in Figure 7-1b shows a customer who has an account in British pounds (GBP) withdrawing S\$100 (Singapore dollars) from Checking/Current. Both new Checking/Current balances were returned.

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1 |          31 OCT 1990   12:17  CH00705          XXXXXXXXXXXX6705          | 1
2 |          |          |          |          |          |          |          | 2
3 |          31 OCT 1990   12:17  CH00705          XXXXXXXXXXXX6705          | 3
4 |          |          |          |          |          |          |          | 4
5 |          GOT S$100 CASH - (#101)          | 5
6 |          GBP45.57 WAS DEDUCTED FROM CHECKING          | 6
7 |          |          |          |          |          |          |          | 7
8 |          NEW CHECKING BALANCES          | 8
9 |          GBP2,056.00 ON DEPOSIT          | 9
10 |          GBP2,056.00 AVAILABLE NOW          | 10
11 |          |          |          |          |          |          |          | 11
12 |          |          |          |          |          |          |          | 12
13 |          |          |          |          |          |          |          | 13
14 |          |          |          |          |          |          |          | 14
15 |          |          |          |          |          |          |          | 15
16 |          |          |          |          |          |          |          | 16
+-----+

```

Figure 7-1b. Sample Cash Withdrawal Record - For Off-Us Card Classes 10-13

STR 46814-S
STR 46824-S

Transfer Money

This section shows the preferred list of what to print for Transfer Money for Card Classes 91 and 93:

- PR0028 or PR0029 (depending upon receipt of Srce_Eqv_Txn_Amt and Dest_Eqv_Txn_Amt)
and
- PR0024 or PR0025 or nothing (if two, one, or no balances were returned for the source account)
and
- PR0024 or PR0025 or nothing (if two, one, or no balances were returned for the destination account)

The sample record in Figure 7-2a shows the customer transferred ¥350,000 from a Japanese yen Checking Account to a U.S. dollar Savings Account using an On-Us Card Class 91 or 93. Equivalent transaction amounts were returned.

Only the Avail_Bal was returned for the source account (Checking). Both Current_Bal and Avail_Bal were returned for the destination account (Savings).

```

1111111111222222222233333333334444444444555
<margin>1234567890123456789012345678901234567890123456789012
+-----+
1 | DATE           TIME    LOCATION   CARD NUMBER   | 1
2 | 31 OCT 1996    12:17   CH00705    1234XXXX896705 | 2
3 |                                     | 3
4 |                                     | 4
5 | TRANSFER ¥350,000 - (#501)         | 5
6 |   FROM CHECKING/CURRENT XXXXXXXXXXXXXXXX7890 | 6
7 |   US$1,200.27 WAS CREDITED         | 7
8 |   TO SAVINGS XXXXXXXXXXXXXXXX1234    | 8
9 |                                     | 9
10 | NEW CHECKING/CURRENT BALANCE XXXXXXXXXXXXXXXX7890 | 10
11 |                               ¥3,000 AVAILABLE NOW | 11
12 |                                     | 12
13 | NEW SAVINGS BALANCES XXXXXXXXXXXXXXXX7890 | 13
14 |                               US$1,200.27 ON DEPOSIT | 14
15 |                               US$1,400.00 AVAILABLE NOW | 15
16 |                                     | 16
+-----+

```

Figure 7-2.a. Sample Transfer Record - For Citicorp Card Classes 91 and 93

For See Information

This section shows the preferred list of what to print for See Information:

PR0030 or PR0031 (depending upon if one or two balances are returned)

The sample record in Figure 7-3a shows the customer checking balance inquiry (Current_Bal and Avail_Bal returned), and a credit inquiry (Cash_Advance_Amt only returned) when using an On-Us Card Class 91 or 93.

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1 |          DATE          TIME   LOCATION   CARD NUMBER          | 1
2 |          31 OCT 1996   12:17   CH00705   1234XXXX896705        | 2
3 |          |          |          |          |          | 3
4 |          |          |          |          |          | 4
5 |          BALANCES - (#310) |          |          |          | 5
6 |          CHECKING/CURRENT XXXXXXXXXXXXXXXX7890 |          |          |          | 6
7 |                      R$25.000,57  ON DEPOSIT |          |          |          | 7
8 |                      R$10.000,00  AVAILABLE NOW |          |          |          | 8
9 |          |          |          |          |          | 9
10 |          BALANCE - (#316) |          |          |          | 10
11 |          VISA XXXXXXXXXXXXXXXX4321 |          |          |          | 11
12 |                      R$5.000,00  CASH ADVANCE AVAILABLE |          |          |          | 12
13 |          |          |          |          |          | 13
14 |          |          |          |          |          | 14
15 |          |          |          |          |          | 15
16 |          |          |          |          |          | 16
+-----+

```

Figure 7-3.a. Sample Inquiry Record - For Citicorp Card Classes 91 and 93

The sample record in Figure 7-3b shows the customer checking balance inquiry (Current_Bal and Avail_Bal returned), and a credit inquiry (Cash_Advance_Amt only returned) when using an Off-Us Card Class 10-13.

The difference between figures 7-3a and 7-3b is that all but the last four digits of the card number are masked for non-Citicorp cards.

```

11111111112222222223333333333444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1 | DATE           TIME    LOCATION  CARD NUMBER  | 1
2 | 31 OCT 1996    12:17   CH00705   XXXXXXXXXX6705 | 2
3 |                                     | 3
4 |                                     | 4
5 | BALANCES - (#301) | 5
6 | CHECKING        | 6
7 |                 R$25.000,57  ON DEPOSIT | 7
8 |                 R$10.000,00  AVAILABLE NOW | 8
9 |                                     | 9
10 | BALANCE - (#303) | 10
11 | CREDIT          | 11
12 |                 R$5.000,00  CASH ADVANCE AVAILABLE | 12
13 |                                     | 13
14 |                                     | 14
15 |                                     | 15
16 |                                     | 16
+-----+

```

Figure 7-3b. Sample Inquiry Record - For Off-Us Card Classes 10-13

Customer Service Phone Number Request

This section shows the preferred list of what to print for Customer Service Phone Number Request:

PR0016 (phone number request menu choice is only presented when phone_number is available).

The sample record in Figure 7-4 shows the customer from Citibank Singapore requesting **Customer Service** from the Main Menu.

		111111111122222222223333333333444444444555		
		<margin>1234567890123456789012345678901234567890123456789012		
1		PLEASE CALL YOUR LOCAL CUSTOMER SERVICE.		1
2		YOU MAY CALL COLLECT USING THIS PHONE NUMBER:		2
3		CITIBANK SINGAPORE 011-99-5-212-207-2583		3
4	Blank			4
5				5
6				6
7				7
8				8
9				9
10				10
11				11
12				12
13				13
14				14
15				15
16				16

Figure 7-4. Sample Customer Service Phone Number Request

Customer Service Referrals

This section shows the preferred list of what to print for Customer Service Referrals:

PR0014 (If Auth_Resp_Cde is received, and phone_number is available).

PR0015 (If Auth_Resp_Cde is received, and phone_number is not available).

PR0016 (If phone_number is available, and Auth_Resp_Cde was not received (or not applicable)).

No record is queued if phone_number and Auth_Resp_Cde are both not available.

The sample record in Figure 7-5a shows the customer from Citibank Arizona encounters a 95QC7 Auth_Resp_Code from SFS when using an On-Us Card Class 91 or 93. A phone number is available for the BIN number.

```

1111111111222222222233333333334444444444555
<margin>1234567890123456789012345678901234567890123456789012
+-----+
1 |                                     1
2 |      DATE          TIME   LOCATION   CARD NUMBER      2
3 |      31 OCT 1996    12:17   CH00705    1234XXXX896705   3
4 |                                     4
5 |      PLEASE CALL YOUR LOCAL CUSTOMER SERVICE.           5
6 |      YOU MAY CALL COLLECT USING THIS PHONE NUMBER:      6
7 |      CITIBANK ARIZONA 011-99-5-212-207-2583              7
8 |      PLEASE GIVE THEM THE FOLLOWING NUMBER: ICC-95QC7.    8
9 |                                     9
10 |                                    10
11 |                                    11
12 |                                    12
13 |                                    13
14 |                                    14
15 |                                    15
16 |                                    16
+-----+

```

Figure 7-5.a. Sample Customer Service Referrals Record - For Citicorp Card Classes 91 and 93

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The sample record in Figure 7-5b shows the customer from Citibank Arizona encounters a 95QC7 Auth_Resp_Code from SFS when using an Off-Us Card Class 10-13. A phone number is available for his BIN number.

The difference between Figures 7-5a and Figure 7-5b is that all but the last four digits of the card number are masked for non-Citicorp cards.

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1 | DATE           TIME   LOCATION   CARD NUMBER   | 1
2 |                 12:17   CH00705   XXXXXXXXXXX6705 | 2
3 |                 31 OCT 1996 | 3
4 |                 | 4
5 | PLEASE CALL YOUR LOCAL CUSTOMER SERVICE. | 5
6 | YOU MAY CALL COLLECT USING THIS PHONE NUMBER: | 6
7 | CITIBANK ARIZONA 011-99-5-212-207-2583 | 7
8 | PLEASE GIVE THEM THE FOLLOWING NUMBER: ICC-95QC7. | 8
9 | | 9
10 | | 10
11 | | 11
12 | | 12
13 | | 13
14 | | 14
15 | | 15
16 | | 16
+-----+

```

Figure 7-5b. Sample Customer Service Referrals Record - For Off-Us Card Classes 10-13

Transaction Journal

This section shows what to print for Transaction Journal when a customer has chosen the **Print** button:

111111111122222222223333333333444444444555																																								
<margin>1234567890123456789012345678901234567890123456789012																																								
1																1																								
2		DATE	TIME	LOCATION	CARD NUMBER											2																								
3		31 OCT 1996	12:17	CH00705	1234XXXX896705											3																								
4																4																								
5		DATE	DESCRIPTION											AMOUNT		5																								
6		18/10	Deposit											544.24		6																								
7		21/10	Trans From Time Deposit											100.00		7																								
8		25/10	Payment From Diners Club											500.00		8																								
9		25/10	Deposit											544.24		9																								
10		25/10	Check 1343											123.45		10																								
11		29/10	Check 1300											700.00		11																								
12		29/10	Check 1344											96.27		12																								
13		30/10	Interest Paid											5.67-		13																								
14																14																								
15																15																								
16																16																								
111111111122222222223333333333444444444555																																								
<margin>1234567890123456789012345678901234567890123456789012																																								
1																1																								
2		DATE	TIME	LOCATION	CARD NUMBER											2																								
3		31 OCT 1996	12:17	CH00705	1234XXXX896705											3																								
4																4																								
5		DATE	DESCRIPTION											AMOUNT		5																								
6		14/10	Transfer From BankAm Account #55567											1,900.00		6																								
7		15/10	Check 1342											222.22		7																								
8		16/10	Check 1345											5.55		8																								
9		17/10	Payment To Mortgage											777.77		9																								
10			12345 Main Street Los Angeles, California													10																								
11		17/10	Late Payment Fee											50.00		11																								
12		17/10	Check 1346											25.00		12																								
13		17/10	Check 1347											33.33		13																								
14																14																								
15																15																								
16																16																								

Figure 7-6.a. Sample TJ Records - For Citicorp Card Classes 91 and 93

7.4 Printed Record Balance Text Descriptors

Table 7-1 shows all the balances that can print on a record for each product. The order in which they are listed is the order in which they appear on the screen, *if they are received*. Also shown are the ID and field name for each balance, as they are indicated in the MLI document.

For every product, a maximum of two balances can print. For Time Deposits and Diners Club, the balances to print depend on what the customer has done in the session.

After a withdrawal/cash advance, only the balances indicated under the "WN" heading are shown.

After a Transfer or Payment, the balances indicated under "TN from" are shown for the source account. The balances indicated under "TN to" are shown for the destination account.

Table 7-1. Printed Record Balance Text Descriptors

CA Category	Product Category	ID	Field Name	Printer Record Text (Zero or Positive/Negative Balance)	BN	WN	TN from	TN to
Checking and Current	Checking/Current	7106	Current Balance	ON DEPOSIT / AMOUNT YOU OWE
		7104	Available Balance	AVAILABLE NOW
Savings and Investments	Savings	7106	Current Balance	ON DEPOSIT / AMOUNT YOU OWE
		7104	Available Balance	AVAILABLE NOW
	Money Market	7106	Current Balance	ON DEPOSIT / AMOUNT YOU OWE
		7104	Available Balance	AVAILABLE NOW
	Time Deposits	7151	Principal Amount	AMOUNT INVESTED	.			
		7414	Maturity Date	MATURITY DATE	.			
		7106	Current Balance	ON DEPOSIT		.	.	
		7104	Available Balance	AVAILABLE NOW		.	.	
	Other [Savings and Investments]	7106	Current Balance	ON DEPOSIT
		7104	Available Balance	AVAILABLE NOW

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Table 7-1. Printer Record Balance Text Descriptors (cont)

CA Category	Product Category	ID	Field Name	Printer Record Text (Zero or Positive/Negative Balance)	BN	WN	TN from	TN to
Loans and Other Credit	Line of Credit (note: also used for Overdraft)	7112	Unpaid Balance	AMOUNT YOU OWE / AMOUNT WE OWE YOU	•	•	•	•
		7108	Available Credit Amount	AVAILABLE NOW	•	•	•	•
	Mortgages	7114	Next Payment Amount	NEXT PAYMENT AMOUNT	•			
		7181	Latest Payment Amount	LAST PAYMENT MADE	•			
	Other Loans	7114	Next Payment Amount	NEXT PAYMENT AMOUNT	•			
		7181	Latest Payment Amount	LAST PAYMENT MADE	•			
Credit Cards	Visa MasterCard	7108	Available Credit Amount	AVAILABLE CREDIT	•	•	•	•
		7140	Cash Advance Amount	CASH ADVANCE AVAILABLE	•	•	•	•
	Diners Club	7106	Current Balance (currency 1)	AMOUNT YOU OWE / AMOUNT WE OWE YOU		•	•	•
		7108	Available Credit Amount	AVAILABLE NOW	•	•	•	•
		7140	Cash Advance Amount	CASH ADVANCE AVAILABLE	•			

Use the following balance text descriptors for Off-Us generic print records, unless they are already specified as part of the print record's SDEs.

Checking or Savings: Current Balance (7106) "ON DEPOSIT"
 Available Balance (7104) "AVAILABLE NOW"

Credit: Available Credit Amount (7108) "TOTAL CREDIT AVAILABLE"
 Cash Advance Amount (7140) "CASH ADVANCE AVAILABLE"

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Table 7-2. Printer Record Balance Text Descriptors

Withdrawal

	Source Product	univ_trans_num
Off-Us Card Class 10-13		
	Checking	101
	Savings	102
	Credit	103
ICC Cards Card Class 91 and 93		
	Checking/Current	110
	Savings	111
	Money Market	112
	Time Deposit	113
	Savings/Investment	114
	Line of Credit	115
	Visa	116
	MasterCard	117
	Diners Club	118
	Other Loan	119

Transfer

Source Product Category	Destination Product Category	univ_trans_num
Off-Us Card Class 10-13		
Checking	Savings	212
Savings	Checking	221
ICC Cards Card Class 93		
Checking/Current	Checking/Current	500
Checking/Current	Savings	501
Checking/Current	Money Market	502
Checking/Current	Other Savings/Investment	503
Checking/Current	Line of Credit	504
Checking/Current	Mortgages	505
Checking/Current	Other Loan	506
Checking/Current	Visa	507
Checking/Current	MasterCard	508
Checking/Current	Diners Club	509

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Transfer (continued)

Source Product Category	Destination Product Category	univ_trans_num
Savings	Checking/Current	510
Savings	Savings	511
Savings	Money Market	512
Savings	Other Savings/Investment	513
Savings	Line of Credit	514
Savings	Mortgages	515
Savings	Other Loan	516
Savings	Visa	517
Savings	MasterCard	518
Savings	Diners Club	519
Money Market	Checking/Current	520
Money Market	Savings	521
Money Market	Money Market	522
Money Market	Other Savings/Investment	523
Money Market	Line of Credit	524
Money Market	Mortgages	525
Money Market	Other Loan	526
Money Market	Visa	527
Money Market	MasterCard	528
Money Market	Diners Club	529
Time Deposit	Checking/Current	530
Time Deposit	Savings	531
Time Deposit	Money Market	532
Time Deposit	Other Savings/Investment	533
Time Deposit	Line of Credit	534
Time Deposit	Mortgages	535
Time Deposit	Other Loan	536
Time Deposit	Visa	537
Time Deposit	MasterCard	538
Time Deposit	Diners Club	539
Other Savings/Investment	Checking/Current	540
Other Savings/Investment	Savings	541
Other Savings/Investment	Money Market	542
Other Savings/Investment	Other Savings/Investment	543
Other Savings/Investment	Line of Credit	544
Other Savings/Investment	Mortgages	545
Other Savings/Investment	Other Loan	546
Other Savings/Investment	Visa	547
Other Savings/Investment	MasterCard	548
Other Savings/Investment	Diners Club	549
Line of Credit	Checking/Current	550
Line of Credit	Savings	551
Line of Credit	Money Market	552
Line of Credit	Other Savings/Investment	553
Line of Credit	Line of Credit	554

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Transfer (continued)

Source Product Category	Destination Product Category	univ_trans_num
Line of Credit	Mortgages	555
Line of Credit	Other Loan	556
Line of Credit	Visa	557
Line of Credit	MasterCard	558
Line of Credit	Diners Club	559
Visa	Checking/Current	560
Visa	Savings	561
Visa	Money Market	562
Visa	Other Savings/Investment	563
Visa	Line of Credit	564
Visa	Mortgages	565
Visa	Other Loan	566
Visa	Visa	567
Visa	MasterCard	568
Visa	Diners Club	569
MasterCard	Checking/Current	570
MasterCard	Savings	571
MasterCard	Money Market	572
MasterCard	Other Savings/Investment	573
MasterCard	Line of Credit	574
MasterCard	Mortgages	575
MasterCard	Other Loan	576
MasterCard	Visa	577
MasterCard	MasterCard	578
MasterCard	Diners Club	579
Diners Club	Checking/Current	580
Diners Club	Savings	581
Diners Club	Money Market	582
Diners Club	Other Savings/Investment	583
Diners Club	Line of Credit	584
Diners Club	Mortgages	585
Diners Club	Other Loan	586
Diners Club	Visa	587
Diners Club	MasterCard	588
Diners Club	Diners Club	589
Other Loan	Checking/Current	590
Other Loan	Savings	591
Other Loan	Money Market	592
Other Loan	Other Savings/Investment	593
Other Loan	Line of Credit	594
Other Loan	Mortgages	595
Other Loan	Other Loan	596
Other Loan	Visa	597
Other Loan	MasterCard	598
Other Loan	Diners Club	599

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Balance Inquiry

	Product	univ_trans_num
Off-Us Card Class 10-13		
	Checking	301
	Savings	302
	Credit	303
ICC Cards Card Class 91 and 93		
	Checking/Current	310
	Savings	311
	Money Market	312
	Time Deposit	313
	Savings/Investment	314
	Line of Credit	315
	Visa	316
	MasterCard	317
	Diners Club	318
	Other Loan	319
	Mortgages	320

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STR 47207-S

7.5 Formats

Following are the specific printed record formats in Global ICC.

Message PR0001. Standard Header

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1|      Z9 XXX 9999   99:99  XX99999  XXXXXXXXXXXXXXXXXXXX | 1
2| Blank Line                                         | 2
3|                                                     | 3
4|                                                     | 4
5|                                                     | 5
6|                                                     | 6
7|                                                     | 7
8|                                                     | 8
9|                                                     | 9
10|                                                    | 10
11|                                                    | 11
12|                                                    | 12
13|                                                    | 13
14|                                                    | 14
15|                                                    | 15
16|                                                    | 16
+-----+

```

Variables: Line 1: day, month, year, time, business, ciu_terminal_id,
card_number

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
day	O	Z9	V	Print the current day of the month.
month	O	XXX	V	Print the current month based on Table C-2.
year	O	9999	V	Print the current year.
time	O	99:99	V	Print the current time. Print in 24-hour clock format (HH:MM).
business	O	XX	V	Print a two-letter descriptor based on the acquiring business (the business which owns this CAT).

The value of the two character code for each acquiring business is documented in the Global ICC Appendix A for each business as the "Printed Record Business Identifier".

STR 46822-S

Standard Data Elements: Message PR0001 (cont)

Data Name	I/O	Format	L-R-V	Comments
-----------	-----	--------	-------	----------

ciu_terminal_id	O	9(5)	V	Print the ciu_terminal_id from this CAT's configuration.
-----------------	---	------	---	--

card_number	O	X(19)	V	If the Card Class Code is ICC 91 or 93, then print the first four and the last six characters of the card number, and substitute all other characters with Xs, as in the following examples:
-------------	---	-------	---	--

For CIN 1234567891234, print:
1234XXX891234

For CIN 123456789123456, print:
1234XXXXXX123456

Else, if the Card Class Code is Off-Us 10 -
Off-Us 13, then print the last four characters of
the card number, and substitute all other
characters with Xs, as in the following
examples:

For CIN 1234567891234, print:
XXXXXXXXXX1234

For CIN 123456789123456, print:
XXXXXXXXXXXXX3456

Message PR0002. Withdrawal (Equivalent Transaction Amount Received) - Off-Us

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1 |      GOT XXXXXXXXXXXXXXXX CASH - (#999)      | 1
2 |      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX WAS DEDUCTED FROM XXXXXXXX | 2
3 | Blank Line                                   | 3
4 |                                             | 4
5 |                                             | 5
6 |                                             | 6
7 |                                             | 7
8 |                                             | 8
9 |                                             | 9
10 |                                             | 10
11 |                                             | 11
12 |                                             | 12
13 |                                             | 13
14 |                                             | 14
15 |                                             | 15
16 |                                             | 16
+-----+

```

Variables: Line 1: withd_amt, univ_trans_num

Line 2: Eqv_Txn_Amt, offus_acct_desc

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
withd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
univ_trans_num	O	999	V	Print the appropriate number from Table 7-2 depending upon the transaction that was performed.
Eqv_Txn_Amt	O	X(25) / \$	V	Display the Eqv_Txn_Amt from FC4201. Format Eqv_Txn_Amt based on Equivalent Transaction Currency in FC4201.

STR 46814-S

Standard Data Elements: Message PR0002 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
offus_acct_desc	O	X(8)	V	Display one of the following based on the withdrawal account type: 001 - "CHECKING" 004 - "SAVINGS" 014 - "CREDIT"

Screen Transition: See Figure 3-3.

STR 46814-S
STR 48212-S

Message PR0003. Withdrawal (Equivalent Transaction Amount Not Received) - Off-U.S.

```

111111111122222222223333333333444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1 | GOT XXXXXXXXXXXXXXXX CASH FROM XXXXXXXX - (#999) | 1
2 | Blank Line | 2
3 | | 3
4 | | 4
5 | | 5
6 | | 6
7 | | 7
8 | | 8
9 | | 9
10 | | 10
11 | | 11
12 | | 12
13 | | 13
14 | | 14
15 | | 15
16 | | 16
+-----+

```

Variables: Line 1: withd_amt, offus_acct_desc, univ_trans_numb

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
withd_amt	O	X(15) / W	V	Display the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
offus_acct_desc	O	X(8)	V	Display one of the following based on the withdrawal account type: 001 - "CHECKING" 004 - "SAVINGS" 014 - "CREDIT"
univ_trans_numb	O	999	V	Print the appropriate number from Table 7-2 depending upon the transaction that was performed.

Screen Transition: See Figure 3-3.

STR 46814-S

STR 48212-S

Message PR0004. Two Checking/Savings Balances (After A Transaction) - Off-Us

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1 |      NEW XXXXXXXX BALANCES      | 1
2 |      XXXXXXXXXXXXXXXXXXXXXXXXXX ON DEPOSIT      | 2
3 |      XXXXXXXXXXXXXXXXXXXXXXXXXX AVAILABLE NOW    | 3
4 | Blank Line                                     | 4
5 |                                                 | 5
6 |                                                 | 6
7 |                                                 | 7
8 |                                                 | 8
9 |                                                 | 9
10|                                                 | 10
11|                                                 | 11
12|                                                 | 12
13|                                                 | 13
14|                                                 | 14
15|                                                 | 15
16|                                                 | 16
+-----+

```

Variables: Line 1: offus_acct_desc1

Line 2: Current_Bal

Line 3: Avail_Bal

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
offus_acct_desc1	O	X(8)	V	Display one of the following based on the transaction's account type: 001 - "CHECKING" 004 - "SAVINGS"
Current_Bal	O	X(25) / \$	V	Display Current_Bal from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers). Format Current_Bal based on Currency_Cde from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers).

STR 46814-S

STR 48212-S

Standard Data Elements: Message PR0004 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
Avail_Bal	O	X(25) / \$	V	Display Avail_Bal from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers). Format Avail_Bal based on Currency_Cde from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers).

Screen Transition: See Figure 3-3, Figure 5-2.

Message PR0005. One Checking/Savings Balance (After A Transaction) - Off-U's

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1|      NEW XXXXXXXX BALANCE      | 1
2|      XXXXXXXXXXXXXXXXXXXXXXXX  | 2
3| Blank Line                     | 3
4|                                | 4
5|                                | 5
6|                                | 6
7|                                | 7
8|                                | 8
9|                                | 9
10|                               | 10
11|                               | 11
12|                               | 12
13|                               | 13
14|                               | 14
15|                               | 15
16|                               | 16
+-----+

```

Variables: Line 1: offus_acct_desc

Line 2: offus_balance, offus_balance_txt

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
offus_acct_desc	O	X(8)	V	Display one of the following based on the transaction's account type: 001 - "CHECKING" 004 - "SAVINGS"
offus_balance	O	X(25) / \$	V	Display either Current_Bal from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers) or Avail_Bal from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers). Format the balance based on Currency_Cde from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers).

STR 46814-S
STR 48212-S

Standard Data Elements: Message PR0005 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
offus_balance_txt	O	X(13)	L	Print the balance for the valid balance returned. The text to display can be found in Table 7-1.

Screen Transition: See Figure 3-3, Figure 5-2.

STR 46814-S
STR 48205-S

Message PR0006. Two Credit Balances (After A Transaction) - Off-Us

```

11111111112222222223333333333444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1      NEW CREDIT BALANCES                               1
2      XXXXXXXXXXXXXXXXXXXXXXXXXXXX TOTAL CREDIT AVAILABLE 2
3      XXXXXXXXXXXXXXXXXXXXXXXXXXXX CASH ADVANCE AVAILABLE 3
4 Blank Line                                              4
5                                                         5
6                                                         6
7                                                         7
8                                                         8
9                                                         9
10                                                        10
11                                                        11
12                                                        12
13                                                        13
14                                                        14
15                                                        15
16                                                        16
+-----+

```

Variables: Line 2: Avail_Credit_Amt
Line 3: Cash_Advance_Amt

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
Avail_Credit_Amt	O	X(25) / \$	V	Display Avail_Credit_Amt from the Balance_Info structure in FC4201. Format Avail_Credit_Amt based on Currency_Cde from the Balance_Info structure in FC4201.
Cash_Advance_Amt	O	X(25) / \$	V	Display Cash_Advance_Amt from the Balance_Info structure in FC4201. Format Cash_Advance_Amt based on Currency_Cde from the Balance_Info structure in FC4201.

Screen Transition: See Figure 3-3.

STR 46814-S

Message PR0007. One Credit Balance (After A Transaction) - Off-U

```

111111111122222222223333333333444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1|      NEW CREDIT BALANCE      |1
2|      XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX |2
3| Blank Line                    |3
4|                               |4
5|                               |5
6|                               |6
7|                               |7
8|                               |8
9|                               |9
10|                              |10
11|                              |11
12|                              |12
13|                              |13
14|                              |14
15|                              |15
16|                              |16
+-----+

```

Variables: Line 2: offus_balance, offus_balance_txt

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
offus_balance	O	X(25) / \$	V	Display either Avail_Credit_Amt or Cash_Advance_Amt from the Balance_Info structure in FC4201. Format the balance based on Currency_Cde from the Balance_Info structure in FC4201.
offus_balance_txt	O	X(22)	L	Print the balance for the valid balance returned. The text to display can be found in Table 7-1.

Screen Transition: See Figure 3-3.

STR 46814-S

STR 48205-S

Message PR0008. Transfer (Equivalent Transaction Amount Received) - Off-Us

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1 | TRANSFER XXXXXXXXXXXXXXXXXXXXXXXXXX - (#999) | 1
2 | XXXXXXXXXXXXXXXXXXXXXXXXXX WAS DEDUCTED FROM XXXXXXXX | 2
3 | XXXXXXXXXXXXXXXXXXXXXXXXXX WAS CREDITED TO XXXXXXXX | 3
4 | Blank Line | 4
5 | | 5
6 | | 6
7 | | 7
8 | | 8
9 | | 9
10 | | 10
11 | | 11
12 | | 12
13 | | 13
14 | | 14
15 | | 15
16 | | 16
+-----+

```

Variables: Line 1: tfr_amt, univ_trans_numb

Line 2: Src_Eqv_Txn_Amt, offus_srceacct_desc

Line 3: Des_Eqv_Txn_Amt, offus_destacct_desc

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25) / \$	V	Display the amount of the transfer. Format the amount based on the default transfer currency code.
univ_trans_numb	O	999	V	Print the appropriate number from Table 7-2 depending upon the transaction that was performed.
Src_Eqv_Txn_Amt	O	X(25) / \$	V	Display Src_Eqv_Txn_Amt, the amount of the transfer in the currency of the source account, from FC4402. Format Src_Eqv_Txn_Amt based on Src_Crcy_Cde in FC4402.

Screen Transition: See Figure 5-2.

STR 46814-S

Standard Data Elements (cont)

Data Name	I/O	Format	L-C-R-V	Comments
offus_srceacct_desc	O	X(8)	V	Display one of the following based on the transfer source: 001 - "CHECKING" 004 - "SAVINGS"
Dest_Eqv_Txn_Amt	O	X(25) / \$	V	Display Dest_Eqv_Txn_Amt, the amount of the transfer in the currency of the destination account, from FC4402. Format Dest_Eqv_Txn_Amt based on Dest_Crncy_Cde in FC4402.
offus_destacct_desc	O	X(8)	V	Display one of the following based on the transfer destination: 001 - "CHECKING" 004 - "SAVINGS"

STR 46814-S
STR 48212-S

Message PR0009. Transfer (No Equivalent Transaction Amounts Received) - Off-Us

```

111111111122222222223333333333444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1 |      TRANSFER XXXXXXXXXXXXXXXXXXXXXXXX FROM XXXXXXXX | 1
2 |      TO XXXXXXXX - (#999) | 2
3 | Blank Line | 3
4 | | 4
5 | | 5
6 | | 6
7 | | 7
8 | | 8
9 | | 9
10 | | 10
11 | | 11
12 | | 12
13 | | 13
14 | | 14
15 | | 15
16 | | 16
+-----+

```

Variables: Line 1: tfr_amt, offus_srceacct_desc

Line 2: offus_destacct_desc, univ_trans_num

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25) / \$	V	Display the amount of the transfer. Format the amount based on the default transfer currency code.
offus_srceacct_desc	O	X(8)	V	Display one of the following based on the transfer source: 001 - "CHECKING" 004 - "SAVINGS"

STR 46814-S
STR 48212-S

Standard Data Elements: Message PR0009 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
offus_destacct_desc	O	X(8)	V	Display one of the following based on the transfer destination: 001 - "CHECKING" 004 - "SAVINGS"
univ_trans_numb	O	999	V	Print the appropriate number from Table 7-2 depending upon the transaction that was performed.

Screen Transition: See Figure 5-2.

STR 46814-S
STR 48212-S

Message PR0014. Call Customer Service (With Phone Number)

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1 | PLEASE CALL YOUR LOCAL CUSTOMER SERVICE. | 1
2 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 2
3 | XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX | 3
4 | PLEASE GIVE THEM THE FOLLOWING NUMBER: ICC-XXXXX. | 4
5 | | 5
6 | | 6
7 | | 7
8 | | 8
9 | | 9
10 | | 10
11 | | 11
12 | | 12
13 | | 13
14 | | 14
15 | | 15
16 | | 16
+-----+

```

Variables: Line 2: phone_txt1/phone_txt2

Line 3: cs_name/phone_number

Line 4: Auth_Resp_Cde

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
phone_txt1	O	X(45)	L	<p>If the phone number can be called collect, then print "YOU MAY CALL COLLECT USING THIS PHONE NUMBER:".</p> <p>If the phone number cannot be called collect, then print "YOU MAY CALL THEM AT THIS PHONE NUMBER:".</p>
phone_txt2	O	X(6)	L	<p>If the phone number can be called collect, then leave blank.</p> <p>If the phone number cannot be called collect, then leave blank.</p>

Standard Data Elements: Message PR0014 (cont)

Data Name	I/O	Format	L-R-V	Comments
cs_name	O	X(25)	V	Print the name of the customer service unit associated with this card prefix. If no name is defined, leave blank.
phone_number	O	X(25)	V	Print the customer service phone number associated with this BIN.
Auth_Resp_Cde	O	X(5)	V	Print the Auth_Resp_Cde returned from the FEP for this transaction.

Screen Transition: See Figure 6-5.

Message PR0015. Call Customer Service (Without Phone Number)

11111111112222222222333333333334444444444555
 <margin>1234567890123456789012345678901234567890123456789012

1	PLEASE CALL XXXXXXXXXXXXXXXXXXXXXXXX CUSTOMER	1
2	SERVICE AND GIVE THIS NUMBER: ICC-XXXXX.	2
3	Blank Line	3
4		4
5		5
6		6
7		7
8		8
9		9
10		10
11		11
12		12
13		13
14		14
15		15
16		16

Variables: Line 1: cs_name/local_txt

Line 2: Auth_Resp_Cde

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
cs_name	O	X(25)	V	Print the name of the customer service unit associated with this card prefix. If no name is defined, then leave blank.
local_txt	O	X(10)	V	If no customer service name is defined for this card prefix, then print "YOUR LOCAL". Else, leave blank.
Auth_Resp_Cde	O	X(5)	V	Print the Auth_Resp_Cde returned from the FEP for this transaction.

Screen Transition: See Figure 6-5.

Comments: The variable local_txt is placed directly on top of cs_name. In languages other than English, the two variables may not be mutually exclusive, which may impact the method of implementation.

STR 47207-S

Message PR0016. Call Customer Service (Without Error Code)

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1 | PLEASE CALL YOUR LOCAL CUSTOMER SERVICE. | 1
2 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 2
3 | XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXX | 3
4 | Blank | 4
5 | | 5
6 | | 6
7 | | 7
8 | | 8
9 | | 9
10 | | 10
11 | | 11
12 | | 12
13 | | 13
14 | | 14
15 | | 15
16 | | 16
+-----+

```

Variables: Line 2: phone_txt1/phone_txt2

Line 3: cs_name/phone_number

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
phone_txt1	O	X(45)	L	<p>If the phone number can be called collect, then print "YOU MAY CALL COLLECT USING THIS PHONE NUMBER:".</p> <p>If the phone number cannot be called collect, then print "YOU MAY CALL THEM AT THIS PHONE NUMBER:".</p>
phone_txt2	O	X(6)	L	<p>If the phone number can be called collect, then leave blank.</p> <p>If the phone number cannot be called collect, then leave blank.</p>

Standard Data Elements: Message PR0016 (cont)

Data Name	I/O	Format	L-R-V	Comments
cs_name	O	X(25)	V	Print the name of the customer service unit associated with this card prefix. If no name is defined, leave blank.
phone_number	O	X(25)	V	Print the customer service phone number associated with this BIN.

Screen Transition: See Figure 2-3.

Message PR0017. PC CAT Withdrawal Slip - Staff Copy - Off-U's

```

111111111122222222223333333333444444444455555555556
12345678901234567890123456789012345678901234567890
+-----+
1 |                PC CAT WITHDRAWAL RECORD                | 1
2 |                NOT NEGOTIABLE                          | 2
3 |                                                         | 3
4 | DATE            TIME            LOCATION            CITICARD NUMBER | 4
5 | Z9 XXX 9999    99:99            XX99999            XXXXXXXXXXXXXXXXXXXX | 5
6 |                                                         | 6
7 | WITHDRAWAL AMOUNT: XXXXXXXXXXXXXXXXXXXX                | 7
8 |                                                         | 8
9 | AMOUNT DEBITED:   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    | 9
10 |                                                         | 10
11 | FROM:            XXXXXXXX                               | 11
12 |                                                         | 12
13 | CUSTOMER'S BANK: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    | 13
14 |                                                         | 14
15 | MESSAGE SEQUENCE: XXXX                                | 15
16 |                                                         | 16
17 | AUTHORIZED SIGNATURE: _____                      | 17
18 |                                                         | 18
19 | FOR BANK USE ONLY                                     | 18
+-----+

```

Variables: Line 5: month/day/year/txn_time/txn_bus/txn_term_id/
txn_card_no

Line 7: txn_amt_w

Line 9: Equiv_Txn_Amt

Line 11: pacct_desc

Line 13: cs_name

Line 15: Msg_Seq_No

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
month	O	XXX	V	Print the current month based on Table C-2.
day	O	Z9	V	Display the current day of the month.

STR 46814-S

STR 46822-S

STR 46824-S

Standard Data Elements: Message PR0017 (cont)

Data Name	I/O	Format	L-R-V	Comments
year	O	9999	V	Display the current year.
txn_time	O	X(5)	L	The start of session time in HH:MM format (military time).
txn_bus	O	XX	L	A business identifier based on the acquiring business. For the PC CAT pilot, display "UK" for United Kingdom.
txn_term_id	O	9(5)	L	The CAT terminal number from the CAT's configuration.
txn_card_no	O	X(19)	L	The customer ID number.
txn_amt_w	O	X(15)/W	L	Display Transaction Amount with currency descriptor based on the Transaction Currency Code of the withdrawal currency.
Equiv_Txn_Amt	O	X(25)/\$	L	Display Equivalent Transaction Amount, from Message 4201, with transaction descriptor based on Equivalent Transaction Currency Code from Message 4201.
pacct_desc	O	X(8)	L	Display one of the following based on the withdrawal account type: 001 - "CHECKING" 004 - "SAVINGS" 014- "CREDIT"
cs_name	O	X(22)	L	The Customer Service Name from Message 4117.
Msg_Seq_No	O	X(4)	L	Display Message Sequence Number from Message 4201.

STR 46814-S

STR 46822-S

STR 48212-S

Message PR0018. PC CAT Withdrawal Slip - Teller Copy - Off-Us

```

111111111122222222223333333333444444444455555555556
12345678901234567890123456789012345678901234567890
+-----+
1 |                               WITHDRAWAL TICKET                               | 1
2 |                                                                           | 2
3 |                                                                           | 3
4 | DATE           TIME           LOCATION           CITICARD NUMBER           | 4
5 | Z9 XXX 9999    99:99          XX99999          XXXXXXXXXXXXXXXXXXXX        | 5
6 |                                                                           | 6
7 | WITHDRAWAL AMOUNT: XXXXXXXXXXXXXXXXXXXX                                     | 7
8 |                                                                           | 8
9 | AMOUNT DEBITED:   XXXXXXXXXXXXXXXXXXXXXXXXXXXX                             | 9
10 |                                                                           | 10
11 | FROM:              XXXXXXXX                                                | 11
12 |                                                                           | 12
13 | CUSTOMER'S BANK:   XXXXXXXXXXXXXXXXXXXXXXXXXXXX                             | 13
14 |                                                                           | 14
15 | MESSAGE SEQUENCE:  XXXX                                                    | 15
16 |                                                                           | 16
17 | AUTHORIZED SIGNATURE: _____                                           | 17
18 |                                                                           | 18
19 +-----+

```

Variables: Line 5: month/day/year/txn_time/txn_bus/txn_term_id/
txn_card_no

Line 7: txn_amt_w

Line 9: Equiv_Txn_Amt

Line 11: pacct_desc

Line 13: cs_name

Line 15: Msg_Seq_No

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
month	O	XXX	V	Print the current month based on Table C-2.
day	O	Z9	V	Display the current day of the month.

STR 46814-S

STR 46822-S

STR 46824-S

Standard Data Elements: Message PR0018 (cont)

Data Name	I/O	Format	L-R-V	Comments
year	O	9999	V	Display the current year.
txn_time	O	X(5)	L	The start of session time in HH:MM format (military time).
txn_bus	O	XX	L	A business identifier based on the acquiring business. For the PC CAT pilot, display "UK" for United Kingdom.
txn_term_id	O	9(5)	L	The CAT terminal number from the CAT's configuration.
txn_card_no	O	X(19)	L	The customer ID number.
txn_amt_w	O	X(15)/W	L	Display Transaction Amount with currency descriptor based on the Transaction Currency Code of the withdrawal currency.
Equiv_Txn_Amt	O	X(25)/\$	L	Display Equivalent Transaction Amount, from Message 4201, with transaction descriptor based on Equivalent Transaction Currency Code from Message 4201.
pacct_desc	O	X(8)	L	Display one of the following based on the withdrawal account type: 001 - "CHECKING" 004 - "SAVINGS" 014 - "CREDIT"
cs_name	O	X(22)	L	The Customer Service Name from Message 4117.
Msg_Seq_No	O	X(4)	L	Display Message Sequence Number from Message 4201.

STR 46814-S

STR 46822-S

STR 48212-S

Message PR0020. Standard Header With Captions

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1      DATE      TIME  LOCATION  CARD NUMBER      1
2      Z9 XXX 9999  99:99  XX99999  XXXXXXXXXXXXXXXXXXXX  2
3 Blank Line                                           3
4                                                         4
5                                                         5
6                                                         6
7                                                         7
8                                                         8
9                                                         9
10                                                    10
11                                                    11
12                                                    12
13                                                    13
14                                                    14
15                                                    15
16                                                    16
+-----+

```

Variables: Line 2: day, month, year, time, business, ciu_terminal_id,
card_number

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
day	O	Z9	V	Print the current day of the month.
month	O	XXX	V	Print the current month based on table C-2.
year	O	9999	V	Print the current year.
time	O	99:99	V	Print the current time. Print in 24-hour clock format (HH:MM).
business	O	XX	V	Print a two-letter descriptor based on the acquiring business (the business who owns this CAT).
				The value of the two character code for each acquiring business is documented in the Global ICC appendix for each business as the "Printed Record Business Identifier".

STR 46822-S

Standard Data Elements: Message PR0020 (cont)

Data Name	I/O	Format	L-R-V	Comments
-----------	-----	--------	-------	----------

ciu_terminal_id	O	9(5)	V	Print the ciu_terminal_id from this CAT's configuration.
card_number	O	X(19)	V	If the Card Class Code is ICC 91 or 93, then print the first four and the last six characters of the card number, and substitute all other characters with Xs, as in the following examples:

For CIN 1234567891234, print:
1234XXX891234

For CIN 123456789123456, print:
1234XXXXX123456

Else, if the Card Class Code is Off-Us 10 -
Off-Us 13, then print the last four characters of
the card number, and substitute all other
characters with Xs, as in the following
examples:

For CIN 1234567891234, print:
XXXXXXXXXX1234

For CIN 123456789123456, print:
XXXXXXXXXXXX3456

Message PR0021. Transaction Journal Print Record

1111111111222222222233333333334444444444555															
<margin>1234567890123456789012345678901234567890123456789012															
1	DATE	DESCRIPTION	AMOUNT	1											
2	XXXXX	XX		2											
3	XXXXX	XX		3											
4	XXXXX	XX		4											
5	XXXXX	XX		5											
6	XXXXX	XX		6											
7	XXXXX	XX		7											
8	XXXXX	XX		8											
9	XXXXX	XX		9											
10				10											
11				11											
12				12											
13				13											
14				14											
15				15											
16				16											

Variables: Line 1-8: p_post_date/p_tx_typ_txt/p_txn_amt

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
p_post_date	O	X(5)	L	Print a pre-formatted date, if received. Else, format and print the date received based on the session language as described in Appendix C. Note: for all pictographic languages (Chinese, Japanese and Korean), the date are formatted and printed in English.
p_tx_typ_txt	O	X(45)	L	Print transaction descriptor as described in Procedure PRC BN5861 in Chapter 4 of this document. Note: for pictographic languages, all transaction descriptors are printed in English. (AsiaCAT will print English dates in pictographic languages in all uppercase).
p_txn_amt	O	X(19) / Z	R	Print transaction amount as described in Procedure PRC BN5861 in Chapter 4 of this document.

STR 46825-S

Message PR0022. Withdrawal (Equivalent Transaction Amount Received)

```

111111111122222222223333333333444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1|      GOT XXXXXXXXXXXXXXXX CASH - (#999)      | 1
2|      XXXXXXXXXXXXXXXXXXXXXXXXXXXX WAS DEDUCTED | 2
3|      FROM XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX | 3
4| Blank Line                                     | 4
5|                                                 | 5
6|                                                 | 6
7|                                                 | 7
8|                                                 | 8
9|                                                 | 9
10|                                                | 10
11|                                                | 11
12|                                                | 12
13|                                                | 13
14|                                                | 14
15|                                                | 15
16|                                                | 16
+-----+

```

Variables: Line 1: withd_amt, univ_trans_num

Line 2: Eqv_Txn_Amt

Line 3: pacct_desc1, pacct_num1

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
withd_amt	O	X(15) / W	V	Print the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.
univ_trans_num	O	999	V	Print the appropriate number from Table 7-2 depending upon the transaction that was performed.
Eqv_Txn_Amt	O	X(25) / \$	V	Print the Eqv_Txn_Amt from FC4201. Format Eqv_Txn_Amt based on Equivalent Transaction Currency in FC4201.

STR 46826-S

Standard Data Elements: Message PR0022 (cont)

Data Name	I/O	Format	L-R-V	Comments
pacct_desc1	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, then print one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "CHECKING/CURRENT" 2 - "SAVINGS" 3 - "MONEY MARKET" 4 - "TIME DEPOSIT" 5 - "SAVINGS/INVESTMENT" 6 - "LINE OF CREDIT" 8 - "LOAN" 9 - "VISA" 10 - "MASTERCARD" 11 - "DINERS CLUB" <p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to print:</p> <ul style="list-style-type: none"> 070-072 - "VISA" 073-074 - "MASTERCARD" 075 - "DINERS CLUB"
pacct_num1	O	X(20)	V	Print 16 Xs and the last four digits of the Account Number from Message 4201.

Screen Transition: See Figure 3-3

STR 46826-S

Message PR0023. Withdrawal (Equivalent Transaction Amount Not Received)

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1|      GOT XXXXXXXXXXXXXXX CASH FROM      | 1
2|      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX - (#999) | 2
3| Blank Line                                | 3
4|                                           | 4
5|                                           | 5
6|                                           | 6
7|                                           | 7
8|                                           | 8
9|                                           | 9
10|                                          | 10
11|                                          | 11
12|                                          | 12
13|                                          | 13
14|                                          | 14
15|                                          | 15
16|                                          | 16
+-----+

```

Variables: Line 1: withd_amt

Line 2: pacct_desc1, pacct_num1, univ_trans_numb

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
withd_amt	O	X(15)/W	V	Print the amount of the withdrawal. Format the amount based on the currency code of the bills dispensed.

STR 46826-S

Standard Data Elements: Message PR0023 (cont)

Data Name	I/O	Format	L-R-V	Comments
pacct_desc1	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, then print one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "CHECKING/CURRENT" 2 - "SAVINGS" 3 - "MONEY MARKET" 4 - "TIME DEPOSIT" 5 - "SAVINGS/INVESTMENT" 6 - "LINE OF CREDIT" 8 - "LOAN" 9 - "VISA" 10 - "MASTERCARD" 11 - "DINERS CLUB" <p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to print:</p> <ul style="list-style-type: none"> 070-072 - "VISA" 073-074 - "MASTERCARD" 075 - "DINERS CLUB"
pacct_num1	O	X(20)	V	Print 16 Xs and the last four digits of the Account Number from Message 4201.
univ_trans_num	O	999	V	Print the appropriate number from Table 7-2 depending upon the transaction that was performed.

Screen Transition: See Figure 3-3.

STR 46826-S

Message PR0024. Two Balances (After A Transaction)

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1| NEW XXXXXXXXXXXXXXXXXXXX BALANCES XXXXXXXXXXXXXXXXXXXX | 1
2| XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 2
3| XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX | 3
4| | 4
5| Blank Line | 5
6| | 6
7| | 7
8| | 8
9| | 9
10| | 10
11| | 11
12| | 12
13| | 13
14| | 14
15| | 15
16| | 16
+-----+

```

Variables: Line 1: pacct_desc2, pacct_num2

Line 2: pnw_bal1, pnw_bal_txt1

Line 3: pnw_bal2, pnw_bal_txt2

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
pacct_desc2	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, then print one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "CHECKING/CURRENT" 2 - "SAVINGS" 3 - "MONEY MARKET" 4 - "TIME DEPOSIT" 5 - "SAVINGS/INVESTMENT" 6 - "LINE OF CREDIT" 8 - "LOAN" 9 - "VISA" 10 - "MASTERCARD" 11 - "DINERS CLUB"

STR 46826-S

STR 46829-S

Standard Data Elements: Message PR0024 (cont)

Data Name	I/O	Format	L-R-V	Comments
				For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to print: 070-072 - "VISA" 073-074 - "MASTERCARD" 075 - "DINERS CLUB"
pacct_num2	O	X(20)	V	Print 16 Xs and the last four digits of the Account Number from Message 4201.
pnew_bal1	O	X(25) / \$	R	Using Table 7-1 as a reference, print the first valid balance from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers/payments). Format the balance based on Currency_Cde from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers/payments).
pnew_bal_txt1	O	X(26)	L	Print the balance descriptor text for the first valid balance returned. The text to display can be found in Table 7-1.
pnew_bal2	O	X(25) / \$	R	Using Table 7-1 as a reference, print the second valid balance from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers/payments). Format the balance based on Currency_Cde from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers/payments).
pnew_bal_txt2	O	X(26)	L	Print the balance descriptor text for the second valid balance returned. The text to display can be found in Table 7-1.

Screen Transition: See Figure 3-3, Figure 5-2.

STR 46826-S

Message PR0025. One Balance (After A Transaction)

1111111111222222222233333333334444444444555															
<margin>1234567890123456789012345678901234567890123456789012															
1	NEW XXXXXXXXXXXXXXXXXXXX BALANCE XXXXXXXXXXXXXXXXXXXX														1
2	XX														2
3															3
4	Blank Line														4
5															5
6															6
7															7
8															8
9															9
10															10
11															11
12															12
13															13
14															14
15															15
16															16

Variables: Line 1: pacct_desc2, pacct_num2

Line 2: pnw_bal1, pnw_bal_txt1

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
pacct_desc2	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, then print one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none"> 1 - "CHECKING/CURRENT" 2 - "SAVINGS" 3 - "MONEY MARKET" 4 - "TIME DEPOSIT" 5 - "SAVINGS/INVESTMENT" 6 - "LINE OF CREDIT" 8 - "LOAN" 9 - "VISA" 10 - "MASTERCARD" 11 - "DINERS CLUB"

STR 46826-S
STR 46829-S

Standard Data Elements: Message PR0025 (cont)

Data Name	I/O	Format	L-R-V	Comments
				For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to print: 070-072 - "VISA" 073-074 - "MASTERCARD" 075 - "DINERS CLUB"
pacct_num2	O	X(20)	V	Print 16 Xs and the last four digits of the Account Number from Message 4201.
pnew_bal1	O	X(25) / \$	R	Using Table 7-1 as a reference, print the valid balance from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers/payments). Format the balance based on Currency_Cde from the Balance_Info structure in FC4201 (for withdrawals) or FC4402 (for transfers/payments).
pnew_bal_txt1	O	X(26)	L	Print the balance for the valid balance returned. The text to display can be found in Table 7-1.

Screen Transition: See Figure 3-3, Figure 5-2.

STR 46826-S

Message PR0028. Transfer/Payment (Equivalent Transaction Amount Received)

1111111111222222222233333333334444444444555
 <margin>1234567890123456789012345678901234567890123456789012

1	TRANSFER XXXXXXXXXXXXXXXXXXXXXXXX - (#999)	1
2	FROM XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	2
3	XXXXXXXXXXXXXXXXXXXXXXXXXXXX WAS CREDITED	3
4	TO XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	4
5		5
6	Blank Line	6
7		7
8		8
9		9
10		10
11		11
12		12
13		13
14		14
15		15
16		16

Variables: Line 1: tfr_amt, univ_trans_num

Line 2: psrce_acct_desc, psrce_acct_num

Line 3: Dest_Eqv_Txn_Amt

Line 4: pdest_acct_desc, pdest_acct_num

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25) / \$	V	Print the amount of the transfer. Format the amount based on the default transfer currency code.
univ_trans_num	O	999	V	Print the appropriate number from Table 7-2 depending upon the transaction that was performed.
Src_Eqv_Txn_Amt	O	X(25) / \$	V	Print Src_Eqv_Txn_Amt, the amount of the transfer in the currency of the source account, from FC4402. Format the amount based on Src_Crncy_Cde in FC4402.

STR 46829-S

Standard Data Elements: Message PR0028 (cont)

Data Name	I/O	Format	L-R-V	Comments
psrce_acct_desc	O	X(18)	V	For Card Class Code ICC 91 transfers and payments, print the name of the source Product Category chosen: 1 - "CHECKING/CURRENT" 2 - "SAVINGS" 3 - "MONEY MARKET" 4 - "TIME DEPOSIT" 5 - "SAVINGS/INVESTMENT" 6 - "LINE OF CREDIT" 8 - "LOAN" 9 - "VISA" 10 - "MASTERCARD" 11 - "DINERS CLUB"
psrce_acct_num	O	X(20)	V	Print 16 Xs and the last four digits of the Account Number from Message 4202.
Dest_Eqv_Txn_Amt	O	X(25) / \$	V	Print Dest_Eqv_Txn_Amt, the amount of the transfer in the currency of the destination account, from FC4402. Format the amount based on Dest_Crncy_Cde in FC4402.
pdest_acct_desc	O	X(18)	V	For Card Class Code ICC 91 transfers and payments, print the name of the destination Product Category chosen: 1 - "CHECKING/CURRENT" 2 - "SAVINGS" 3 - "MONEY MARKET" 5 - "SAVINGS/INVESTMENT" 6 - "LINE OF CREDIT" 7 - "MORTGAGE" 8 - "LOAN" 9 - "VISA" 10 - "MASTERCARD" 11 - "DINERS CLUB"
pdest_acct_num	O	X(20)	V	Print 16 Xs and the last four digits of the Account Number from Message 4202.

Screen Transition: See Figure 5-2.

STR 46821-S

Message PR0029. Transfer/Payment (No Equivalent Transaction Amounts Received)

1111111111222222222233333333334444444444555
 <margin>1234567890123456789012345678901234567890123456789012

1	TRANSFER XXXXXXXXXXXXXXXXXXXXXXXXXXXX - (#999)	1
2	FROM XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	2
3	TO XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	3
4	Blank Line	4
5		5
6		6
7		7
8		8
9		9
10		10
11		11
12		12
13		13
14		14
15		15
16		16

Variables: Line 1: tfr_amt, univ_trans_num

Line 2: psrce_acct_desc, psrce_acct_num

Line 3: pdest_acct_desc, pdest_acct_num

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
tfr_amt	O	X(25) / \$	V	Print the amount of the transfer. Format the amount based on the default transfer currency code.
univ_trans_num	O	999	V	Print the appropriate number from Table 7-2 depending upon the transaction that was performed.

STR 46829-S

Standard Data Elements: Message PR0029 (cont)

Data Name	I/O	Format	L-R-V	Comments
psrce_acct_desc	O	X(18)	V	For Card Class Code ICC 91 transfers and payments, print the name of the source Product Category chosen: 1 - "CHECKING/CURRENT" 2 - "SAVINGS" 3 - "MONEY MARKET" 4 - "TIME DEPOSIT" 5 - "SAVINGS/INVESTMENT" 6 - "LINE OF CREDIT" 8 - "LOAN" 9 - "VISA" 10 - "MASTERCARD" 11 - "DINERS CLUB"
psrce_acct_num	O	X(20)	V	Print one X and the last four digits of the Account Number from Message 4402.
pdest_acct_desc	O	X(18)	V	For Card Class Code ICC 91 transfers and payments, print the name of the destination Product Category chosen: 1 - "CHECKING/CURRENT" 2 - "SAVINGS" 3 - "MONEY MARKET" 5 - "SAVINGS/INVESTMENT" 6 - "LINE OF CREDIT" 7 - "MORTGAGE" 8 - "LOAN" 9 - "VISA" 10 - "MASTERCARD" 11 - "DINERS CLUB"
pdest_acct_num	O	X(20)	V	Print 16 Xs and the last four digits of the Account Number from Message 4402.

Screen Transition: See Figure 5-2.

STR 46821-S

Message PR0030. Inquiry - Two Balances

1111111111222222222233333333334444444444555
<margin>1234567890123456789012345678901234567890123456789012

1	BALANCES - (#999)	1
2	XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX	2
3	XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX	3
4	XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX	4
5	Blank Line	5
6		6
7		7
8		8
9		9
10		10
11		11
12		12
13		13
14		14
15		15
16		16

Variables: Line 1: univ_trans_num

Line 2: pacct_desc3, pacct_num3

Line 3: pbal1, pbal_txt1

Line 4: pbal2, pbal_txt2

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
univ_trans_num	O	999	V	Print the appropriate number from Table 7-2 depending upon the transaction that was performed.

STR 46821-S

Standard Data Elements: Message PR0030 (cont)

Data Name	I/O	Format	L-R-V	Comments								
pacct_desc3	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, then print one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none">1 - "CHECKING/CURRENT"2 - "SAVINGS"3 - "MONEY MARKET"4 - "TIME DEPOSIT"5 - "SAVINGS/INVESTMENT"6 - "LINE OF CREDIT"7 - "MORTGAGE"8 - "LOAN"9 - "VISA"10 - "MASTERCARD"11 - "DINERS CLUB" <p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to print:</p> <table><tr><th>Code</th><th>Display</th></tr><tr><td>070-072</td><td>"VISA"</td></tr><tr><td>073-074</td><td>"MASTERCARD"</td></tr><tr><td>075</td><td>"DINERS CLUB"</td></tr></table> <p>Else, if Card Class Code is Off-Us 10 - Off-Us 13, then print one of the following based on the Product Type Code:</p> <ul style="list-style-type: none">001 - "CHECKING"004 - "SAVINGS"014 - "CREDIT"	Code	Display	070-072	"VISA"	073-074	"MASTERCARD"	075	"DINERS CLUB"
Code	Display											
070-072	"VISA"											
073-074	"MASTERCARD"											
075	"DINERS CLUB"											
pacct_num3	O	X(20)	V	Print 16 Xs and the last four digits of the Account Number from Message 4501.								
pball	O	X(25) / \$	R	Using Table 7-1 as a reference, print the first valid balance from the Balance_Info structure in FC4501. Format the balance based on Currency_Cde from the Balance_Info structure in FC4501.								

STR 46814-S

STR 46826-S

STR 48212-S

Standard Data Elements: Message PR0030 (cont)

Data Name	I/O	Format	L-R-V	Comments
pbal_txt1	O	X(26)	L	Print the balance descriptor text for the first valid balance returned. The text to print can be found in Table 7-1.
pbal2	O	X(25) / \$	R	Using Table 7-1 as a reference, print the second valid balance from the Balance_Info structure in FC4501. Format the balance based on Currency_Cde from the Balance_Info structure in FC4501.
pbal_txt2	O	X(26)	L	Print the balance descriptor text for the second valid balance returned. The text to print can be found in Table 7-1.

Screen Transition: See Figure 4-1.

Message PR0031. Inquiry - One Balance

```

1111111111222222222233333333334444444444555
<margin>123456789012345678901234567890123456789012
+-----+
1 |      BALANCE - (#999)      | 1
2 |      XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX | 2
3 |      XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX | 3
4 | Blank Line                | 4
5 |                           | 5
6 |                           | 6
7 |                           | 7
8 |                           | 8
9 |                           | 9
10|                           | 10
11|                           | 11
12|                           | 12
13|                           | 13
14|                           | 14
15|                           | 15
16|                           | 16
+-----+

```

Variables: Line 1: univ_trans_num

Line 2: pacct_desc3, pacct_num3

Line 3: pbal1, pbal_txt1

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
univ_trans_num	O	999	V	Print the appropriate number from Table 7-2 depending upon the transaction that was performed.

STR 46821-S

Standard Data Elements: Message PR0031 (cont)

Data Name	I/O	Format	L-R-V	Comments								
pacct_desc3	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, then print one of the following based on the optional Product Category Code element returned in the profile:</p> <ul style="list-style-type: none">1 - "CHECKING/CURRENT"2 - "SAVINGS"3 - "MONEY MARKET"4 - "TIME DEPOSIT"5 - "SAVINGS/INVESTMENT"6 - "LINE OF CREDIT"7 - "MORTGAGE"8 - "LOAN"9 - "VISA"10 - "MASTERCARD"11 - "DINERS CLUB" <p>For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to print:</p> <table><tr><th>Code</th><th>Display</th></tr><tr><td>070-072</td><td>"VISA"</td></tr><tr><td>073-074</td><td>"MASTERCARD"</td></tr><tr><td>075</td><td>"DINERS CLUB"</td></tr></table> <p>Else, if Card Class Code is Off-Us 10 - Off-Us 13, then print one of the following based on the Product Type Code:</p> <ul style="list-style-type: none">001 - "CHECKING"004 - "SAVINGS"014 - "CREDIT"	Code	Display	070-072	"VISA"	073-074	"MASTERCARD"	075	"DINERS CLUB"
Code	Display											
070-072	"VISA"											
073-074	"MASTERCARD"											
075	"DINERS CLUB"											
pacct_num3	O	X(20)	V	Print 16 Xs and the last four digits of the Account Number from Message 4501.								
pball1	O	X(25) / \$	R	Using Table 7-1 as a reference, print the valid balance from the Balance_Info structure in FC4501: Format the balance based on Currency_Cde from the Balance_Info structure in FC4501.								

STR 46814-S
 STR 46826-S
 STR 48212-S

Standard Data Elements: Message PR0031 (cont)

Data Name	I/O	Format	L-R-V	Comments
pbal_txt1	O	X(26)	L	Print the balance descriptor text for the valid balance returned. The text to print can be found in Table 7-1.

Screen Transition: See Figure 4-1.

Message PR0032. PC CAT Withdrawal Slip - Staff Copy - On-Us

111111111122222222223333333333444444444455555555556
123456789012345678901234567890123456789012345678901234567890

1	PC CAT WITHDRAWAL RECORD				1
2	NOT NEGOTIABLE				2
3					3
4	DATE	TIME	LOCATION	CITICARD NUMBER	4
5	Z9 XXX 9999	99:99	XX99999	XXXXXXXXXXXXXXXXXXXX	5
6					6
7	WITHDRAWAL AMOUNT: XXXXXXXXXXXXXXXX				7
8					8
9	AMOUNT DEBITED: XXXXXXXXXXXXXXXXXXXXXXXX				9
10					10
11	FROM: XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX				11
12					12
13	CUSTOMER'S BANK: XXXXXXXXXXXXXXXXXXXXXXXX				13
14					14
15	MESSAGE SEQUENCE: XXXX				15
16					16
17	AUTHORIZED SIGNATURE: _____				17
18	FOR BANK USE ONLY				18
19					19

Variables: Line 5: day/month/year/txn_time/txn_bus/txn_term_id/
txn_card_no

Line 7: txn_amt_w

Line 9: Equiv_Txn_Amt

Line 11: pacct_desc, pacct_num

Line 13: cs_name

Line 15: Msg_Seq_No

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
day	O	Z9	V	Display the current day of the month.
month	O	XXX	V	Print the current month based on Table C-2.

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STR 46822-S

Standard Data Elements: PR0032 (cont)

Data Name	I/O	Format	L-R-V	Comments
year	O	9999	V	Print the current year.
txn_time	O	X(5)	L	The start of session time in HH:MM format (military time).
txn_bus	O	XX	L	A business identifier based on the acquiring business. For the PC CAT pilot, display "UK" for United Kingdom.
txn_term_id	O	9(5)	L	The CAT terminal number from the CAT's configuration.
txn_card_no	O	X(19)	L	The customer ID number.
txn_amt_w	O	X(15)/W	L	Print Transaction Amount with currency descriptor based on the Transaction Currency Code of the withdrawal currency.
Equiv_Txn_Amt	O	X(25)/\$	L	Print Equivalent Transaction Amount, from Message 4201, with transaction descriptor based on Equivalent Transaction Currency Code from Message 4201.
pacct_desc	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, print one of the following based on the optional Product Category Code element returned in the profile for the withdrawal source account:</p> <ul style="list-style-type: none"> 1 - "CHECKING/CURRENT" 2 - "SAVINGS" 3 - "MONEY MARKET" 4 - "TIME DEPOSIT" 5 - "SAVINGS/INVESTMENT" 6 - "LINE OF CREDIT" 8 - "LOAN" 9 - "VISA" 10 - "MASTERCARD" 11 - "DINERS CLUB"

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Standard Data Elements: PR0032 (cont)

Data Name	I/O	Format	L-R-V	Comments
				For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to print: 070-072 - "VISA" 073-074 - "MASTERCARD" 075 - "DINERS CLUB"
pacct_num	O	X(20)	V	Print 16 Xs and the last four digits of the Account Number from Message 4201.
cs_name	O	X(22)	L	The Customer Service Name from Message 4117.
Msg_Seq_No	O	X(4)	L	Print Message Sequence Number from Message 4201.

Screen Transition: See Figure 3-8.

STR 46814-S

Message PR0033. PC CAT Withdrawal Slip - Teller Copy - On-Us

11111111112222222222333333333344444444445555555555 56
123456789012345678901234567890123456789012345678 90

WITHDRAWAL TICKET				
DATE	TIME	LOCATION	CITICARD NUMBER	
Z9 XXX 9999	99:99	XX99999	XXXXXXXXXXXXXXXXXXXX	
WITHDRAWAL AMOUNT: XXXXXXXXXXXXXXXX				
AMOUNT DEBITED: XXXXXXXXXXXXXXXXXXXXXXXX				
FROM: XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX				
CUSTOMER'S BANK: XXXXXXXXXXXXXXXXXXXXXXXX				
MESSAGE SEQUENCE: XXXX				
AUTHORIZED SIGNATURE: _____				

Variables: Line 5: day/month/year/txn_time/txn_bus/txn_term_id/
txn_card_no

Line 7: txn_amt_w

Line 9: Equiv_Txn_Amt

Line 11: pacct_desc, pacct_num

Line 13: cs_name

Line 15: Msg_Seq_No

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
day	O	Z9	V	Display the current day of the month.
month	O	XXX	V	Print the current month based on Table C-2.

STR 46814-S

STR 46822-S

Standard Data Elements: Message PR0033 (cont)

Data Name	I/O	Format	L-R-V	Comments
year	O	9999	V	Print the current year.
txn_time	O	X(5)	L	The start of session time in HH:MM format (military time).
txn_bus	O	XX	L	A business identifier based on the acquiring business. For the PC CAT pilot, display "UK" for United Kingdom.
txn_term_id	O	9(5)	L	The CAT terminal number from the CAT's configuration.
txn_card_no	O	X(19)	L	The customer ID number.
txn_amt_w	O	X(15)/W	L	Print Transaction Amount with currency descriptor based on the Transaction Currency Code of the withdrawal currency.
Equiv_Txn_Amt	O	X(25)/\$	L	Print Equivalent Transaction Amount, from Message 4201, with transaction descriptor based on Equivalent Transaction Currency Code from Message 4201.
pacct_desc	O	X(18)	V	<p>If the Card Class Code is ICC 91 or 93, print one of the following based on the optional Product Category Code element returned in the profile for the withdrawal source account:</p> <ul style="list-style-type: none"> 1 - "CHECKING/CURRENT" 2 - "SAVINGS" 3 - "MONEY MARKET" 4 - "TIME DEPOSIT" 5 - "SAVINGS/INVESTMENT" 6 - "LINE OF CREDIT" 8 - "LOAN" 9 - "VISA" 10 - "MASTERCARD" 11 - "DINERS CLUB"

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Standard Data Elements: Message PR0033 (cont)

Data Name	I/O	Format	L-R-V	Comments
				For Card Class 93, if no profile has been received, then use the CAT Card Type Code to determine which to print: 070-072 - "VISA" 073-074 - "MASTERCARD" 075 - "DINERS CLUB"
pacct_num	O	X(20)	V	Print 16 Xs and the last four digits of the Account Number from Message 4201.
cs_name	O	X(22)	L	The Customer Service Name from Message 4117.
Msg_Seq_No	O	X(4)	L	Print Message Sequence Number from Message 4201.

STR 46814-S

Chapter 8

ICC Card Processing

ICC Standalone Card Processing is the application that controls the start of session, the initial card read, and routing to the generic ICC applications. The Standalone Card Processing Application is used only by ICC CATs that run only ICC applications and no local CAT applications. ICC Standalone CATs accept only ICC cards—no local cards are accepted.

8.1 Languages

Each screen in Standalone Card Processing may be displayed in either one or two languages, depending upon the language configuration of the CAT. If the CAT is configured for two languages, the languages are designated as primary and secondary. If only one language is set in the configuration, it is, by default, the primary language.

For clarity, only the two language screens have been referenced in the flowcharts. The single-language versions have been assigned the same screen number with a designator "A" appended to them. For example, Screen 6007 is the Out of Service - Two Language screen, and Screen 6007A is the Out of Service - One Language screen.

This is the English version of ICC Standalone Card Processing. These screens are used by all ICC Standalone CAT configurations in which English is the primary language. The secondary language may be any other language.

This APS also contains the variable text to use on secondary language portions for all screens where English is the secondary language. For variable text for all non-English languages, see the appropriate ICC language "Phrase by Screen Report".

8.2 Processing Overview

Following are the steps that comprise processing:

3. Check if an infinite retry message was sent. If so, check if a response has been received. Process accordingly.
4. Check the status of the devices. If the card reader or the touchscreen is down, take the CAT out of service. If they are up, continue.
5. Display the appropriate Hello screen. Wait for card insert/dip.
6. When a card is inserted, validate it for valid International Organization for Standardization (ISO) format.
7. If the device is a PC CAT configured for cardless access and the button for cardless access is activated, display a screen to capture the card identification number (CIN).
8. If the read was good, go to the ICC Generic Product Select (PN) application, whether the card was found in the ICC language table or not. If the read was not good, display an appropriate error screen and either time out (dip readers), or go through the Return Card routine (transport readers).
9. If the PN application is unable to process this card, it is returned to this application. For a Standalone ICC, it should always return a card class of unsupported if it cannot process the card. Otherwise, it is treated as a bad card read. In either case, display an appropriate error screen and either time out (dip readers) or go through the Return Card routine (transport readers).
10. Restart the application.

8.3 Flowcharts

This section provides the flowcharts that describe the ICC Card Processing application.

ICC Card Processing

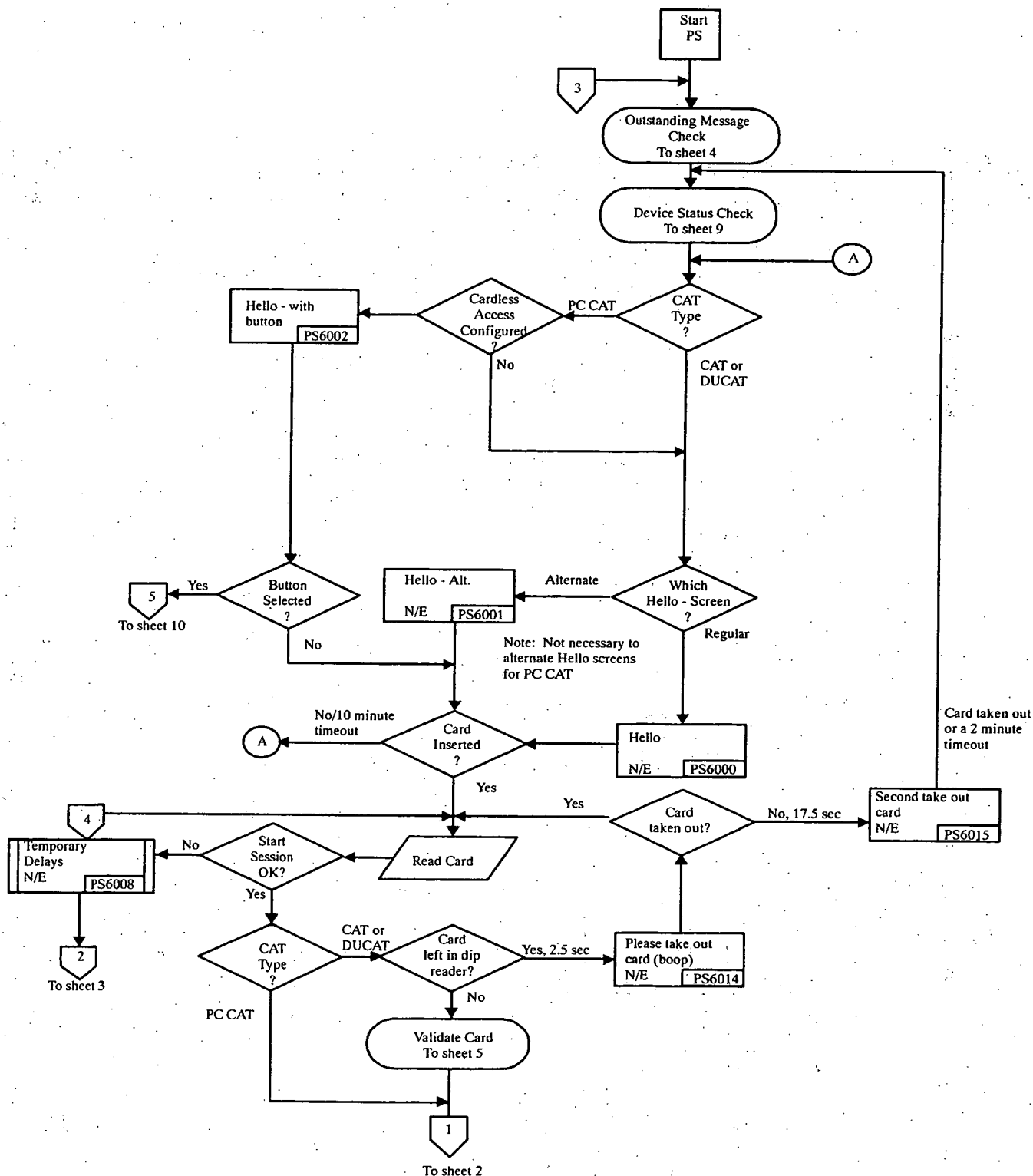


Figure 8-1. ICC Card Processing Hello and Read Card (Sheet 1 of 10)

*Card Processing for Standalone International Citicard (ICC) CAT
Application Product Specification*

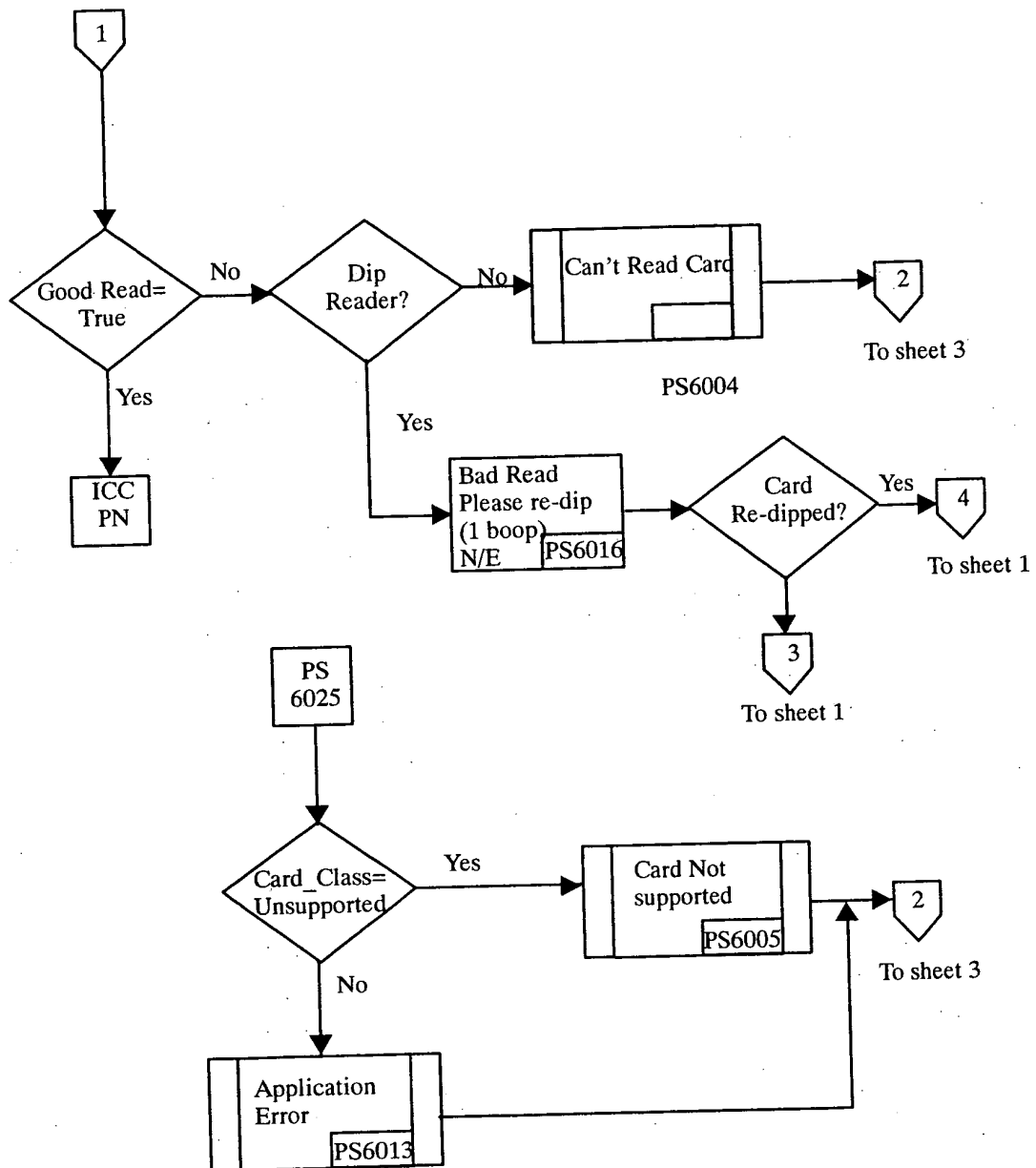


Figure 2-1a. ICC Card Processing Hello and Read Card (cont) (Sheet 2 of 10)

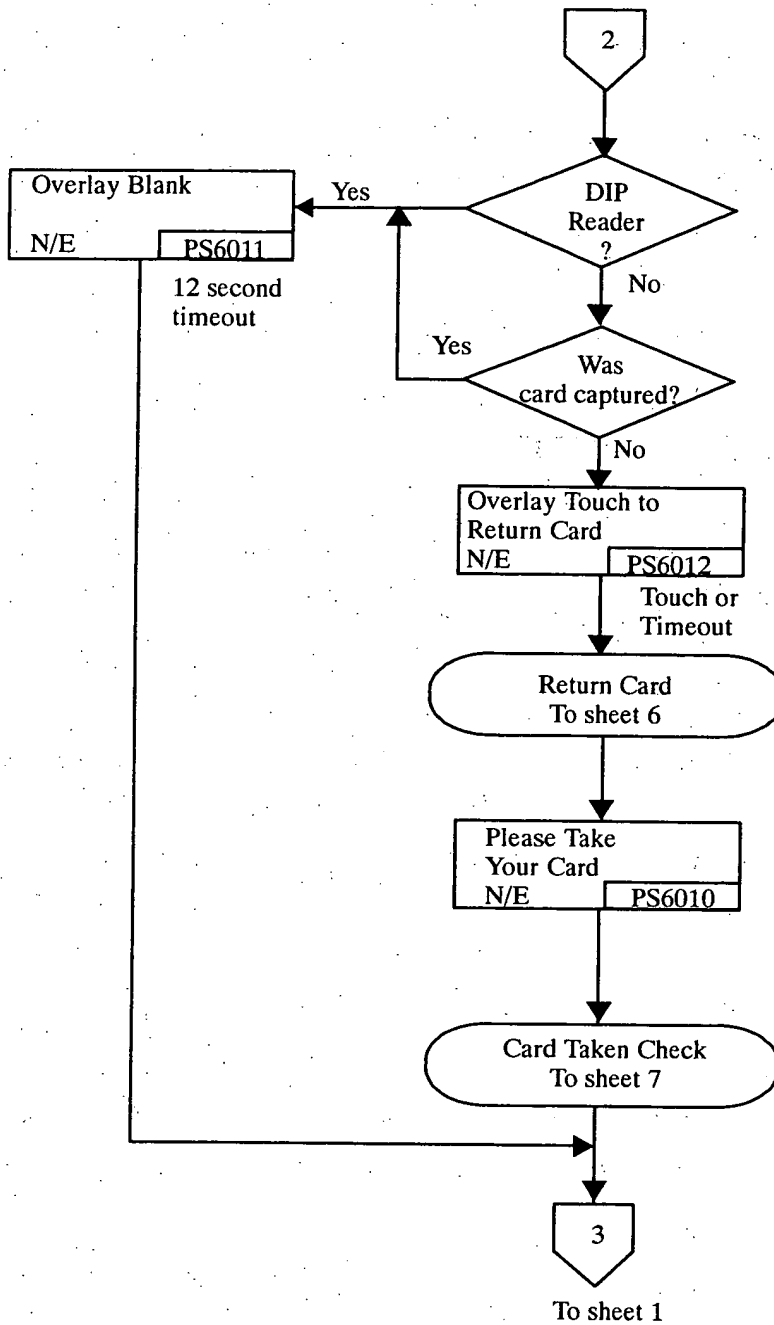


Figure 8-2. ICC Card Processing Exit (Sheet 3 of 10)

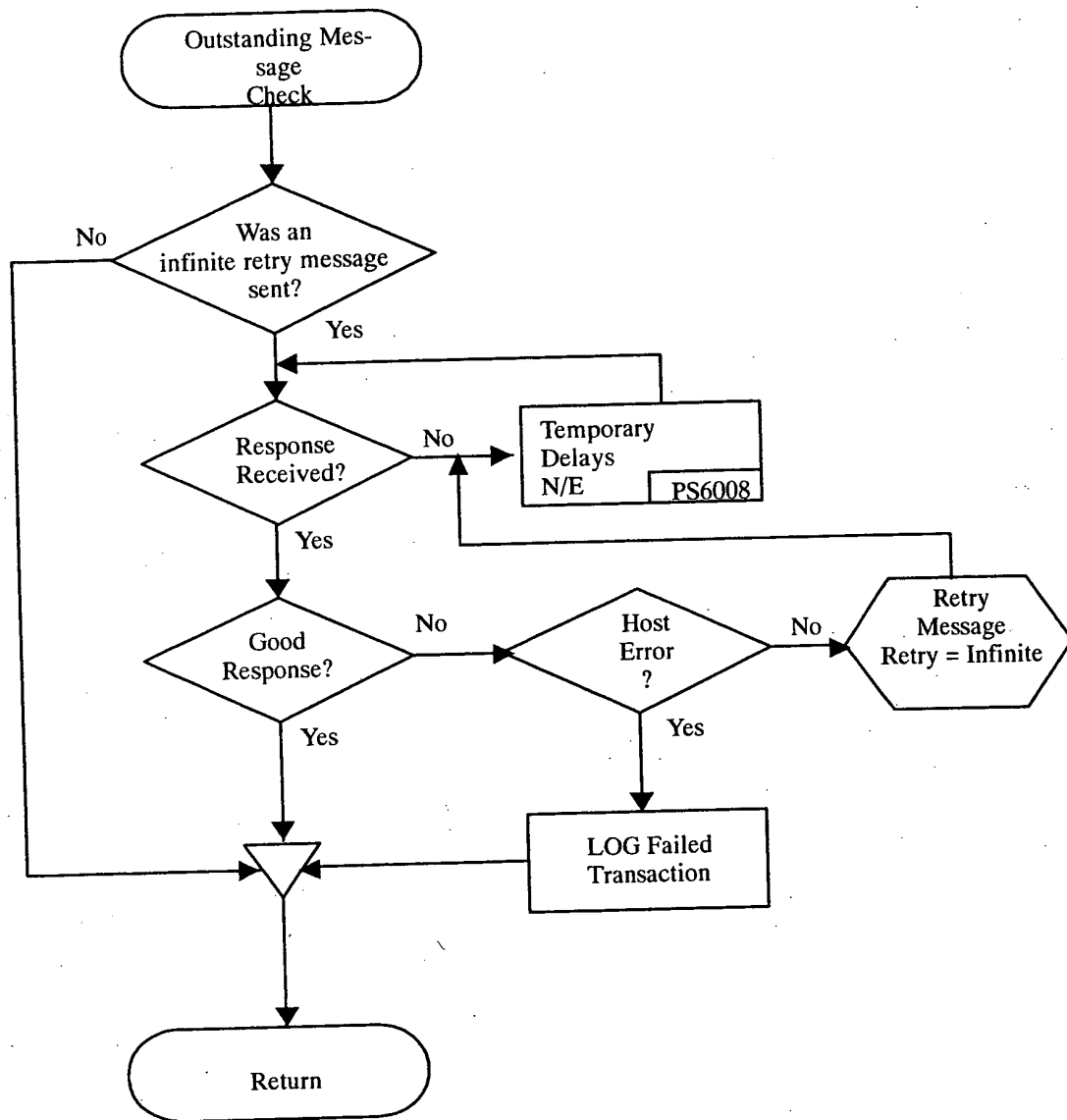


Figure 8-3. ICC Card Processing Outstanding Message Check (Sheet 4 of 10)

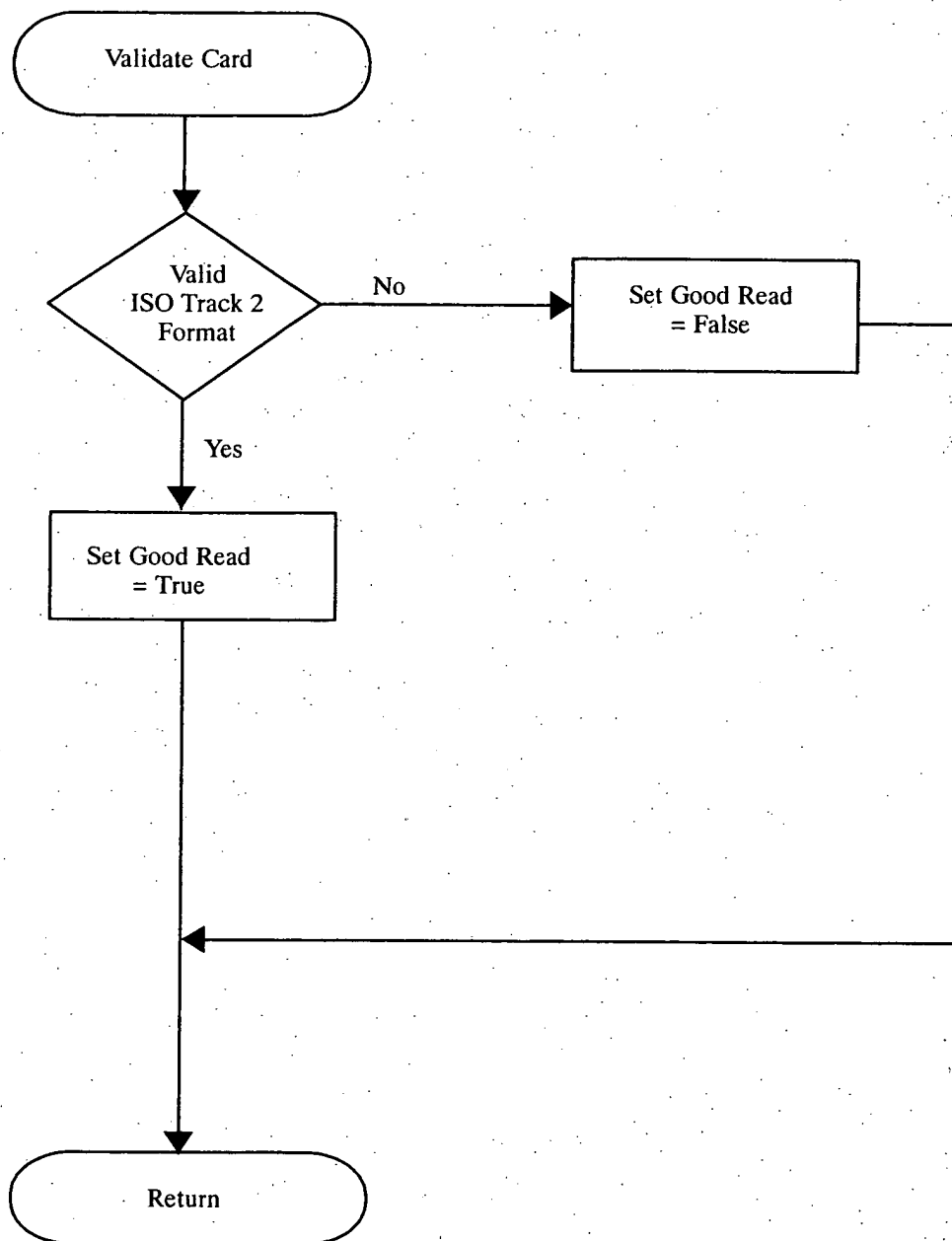


Figure 8-4. ICC Card Processing Validate Card (Sheet 5 of 10)

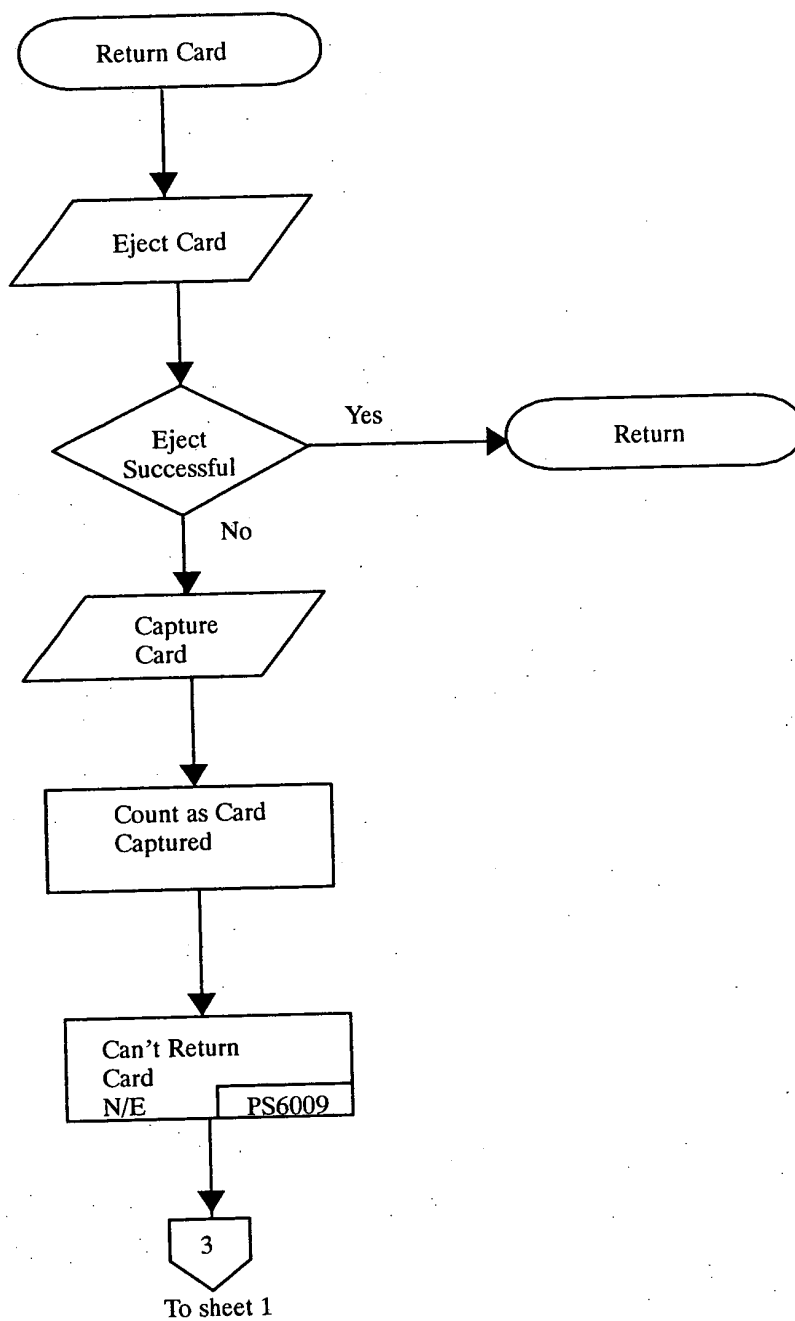


Figure 8-5. ICC Card Processing Return Card (Sheet 6 of 10)

ICC Card Processing

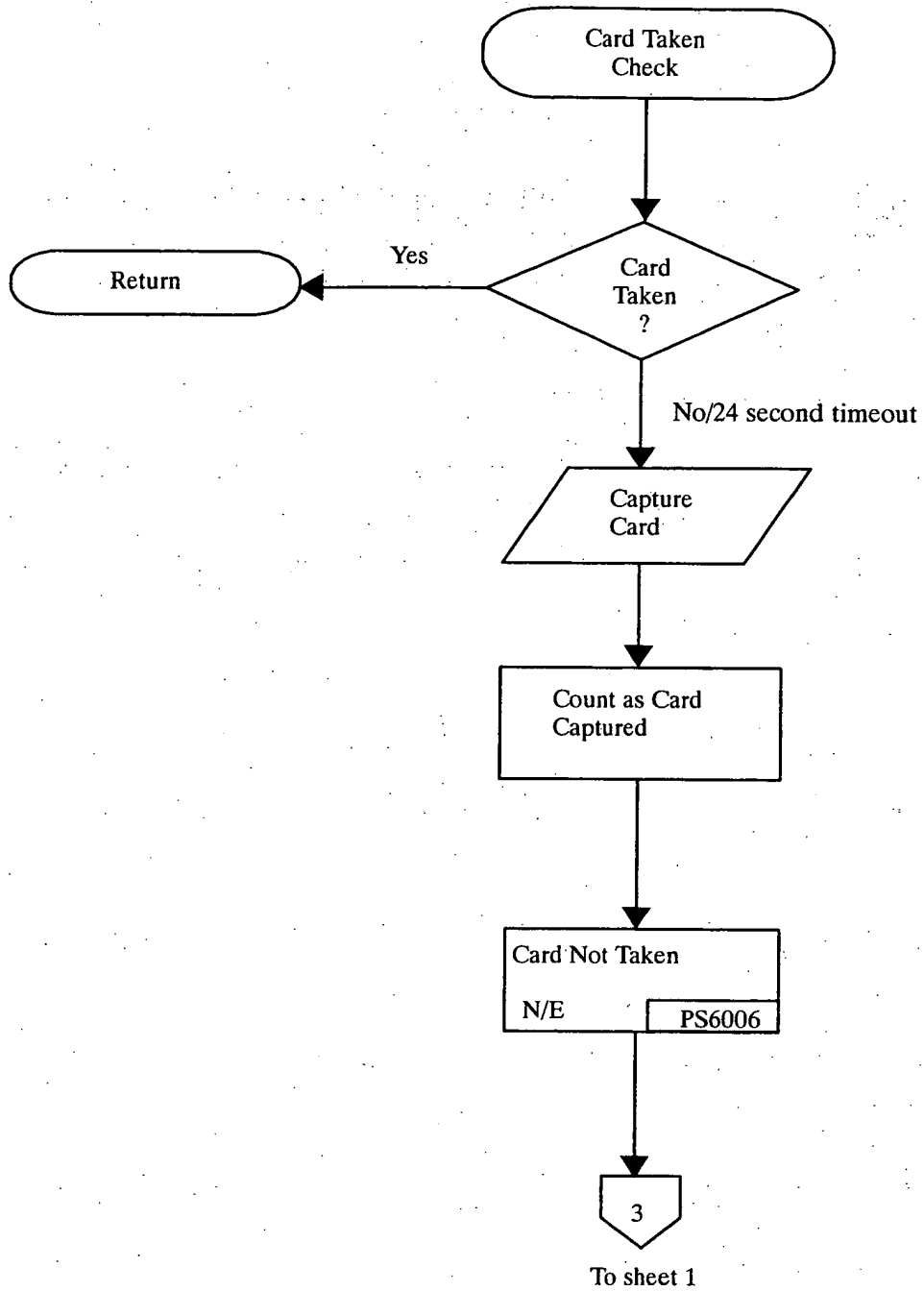


Figure 8-6. ICC Card Processing Card Taken Check (Sheet 7 of 10)

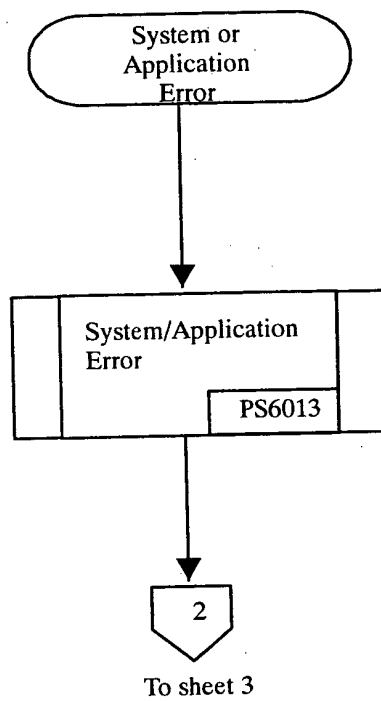


Figure 8-7. ICC Card Processing System or Application Error (Sheet 8 of 10)

ICC Card Processing

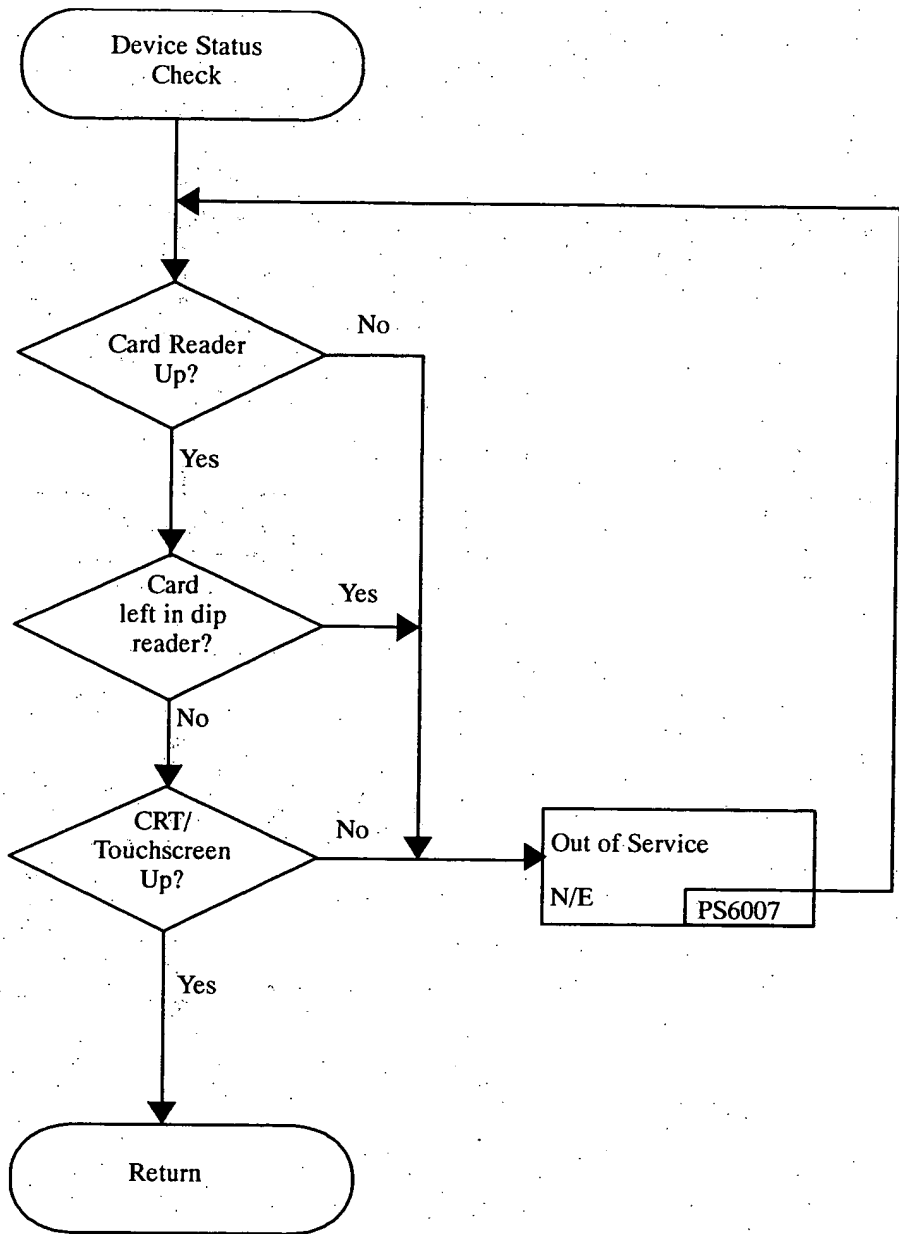


Figure 8-8. ICC Card Processing Device Status Check (Sheet 9 of 10)

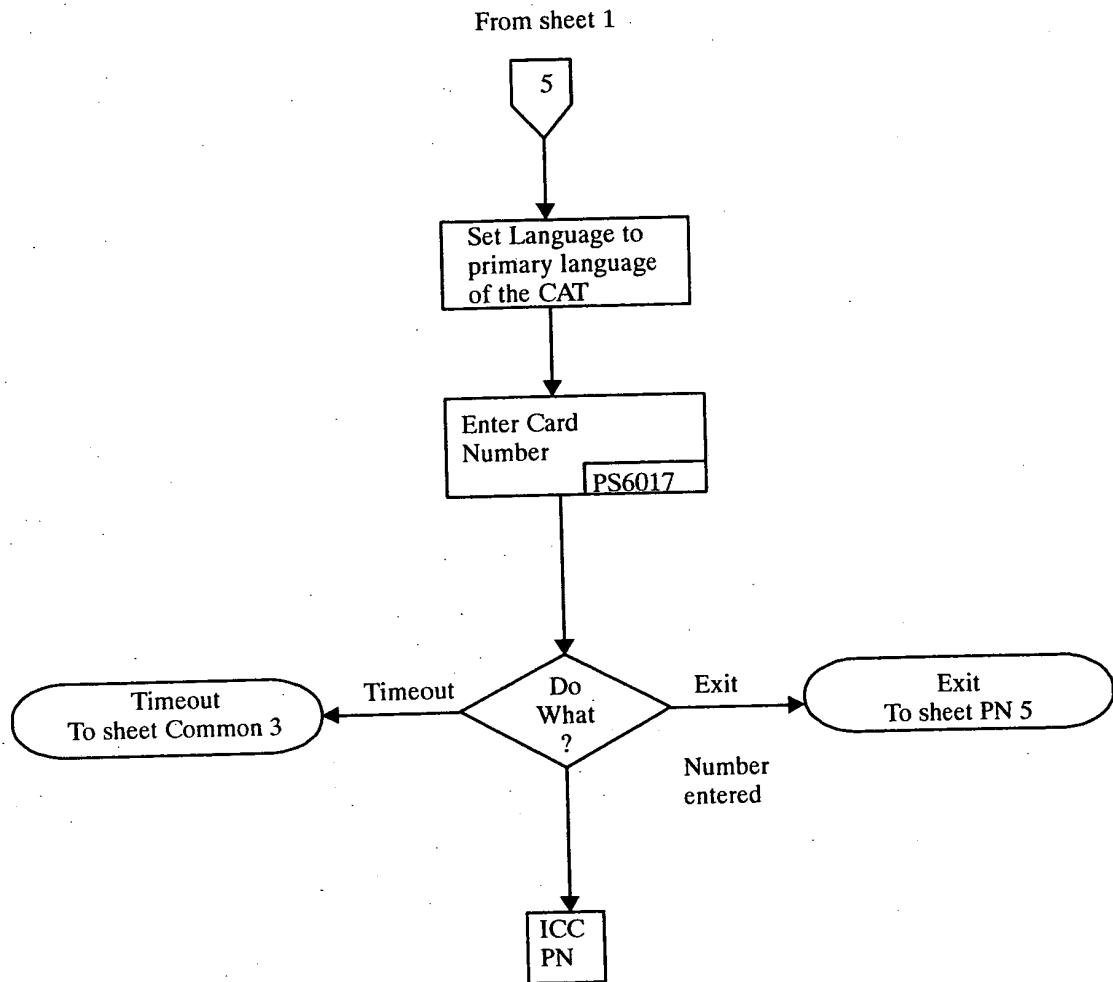


Figure 8-9. PC CAT Cardless Access (Sheet 10 of 10)

8.4 Screens

This section shows the screens and standard data elements for the ICC Card Processing application.

Standard Data Elements

8-14

Standard Data Elements: Screen PS6000 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card1a	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card1b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>

Standard Data Elements: Screen PS6000 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
hello2	O	X(38)	C	<p>If the secondary language of this CAT is English, display one of the following based on time of day:</p> <p>Morning - "Hello - May I help you?"</p> <p>Afternoon - "Hello - May I help you?"</p> <p>Evening - "Hello - May I help you?"</p> <p>Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.</p>
hello2a	O	X(38)	C	<p>Display one of the following based on time of day:</p> <p>Morning - blank</p> <p>Afternoon - blank</p> <p>Evening - blank</p>
hello2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6000 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card2a	O	X(38)	C	<p>If the secondary language of this CAT is English, display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card2aC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>
ins_card2bC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-1.

Screen PS6000A. One Language Hello

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
1	1
2	2
3	3
4	4
5	5
6	6
7	7 greeting
8	8 greeting1 not shown
9	9
10	10
11	11 ins_card1
12	12 ins_cardla
13	13 ins_cardlb
14	14
15	15
16	16
17	17
18	18
19	19
20	20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS6000A (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card1a	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card1b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>

Screen Transition: See Figure 8-1.

Screen PS6001. Two Language Hello - Alt

111111111122222222223333333334	
1234567890123456789012345678901234567890	
1	XX
2	XX
3	XX
4	XX
5	XX
6	
7	
8	
9	
10	
11	XX
12	XX
13	XX
14	XX
15	XX
16	
17	
18	
19	© Citicorp 1990, 1995
20	

1 greeting
2 greeting1 not shown
3 ins_card1
4 ins_card1a
5 ins_card1b
6
7
8
9
10
11 hello2/hello2C
12 hello2a not shown
13 ins_card2/ins_card2C
14 ins_card2a/ins_card2aC
15 ins_card2b/ins_card2bC
16
17
18
19
20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS6001 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card1a	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card1b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>

Standard Data Elements: Screen PS6001 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
hello2	O	X(38)	C	If the secondary language of this CAT is English, display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.
hello2a	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank
hello2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2	O	X(38)	C	Display one of the following based on the type of CAT hardware in use: CAT/dip - "Please put your card in the slot" CAT/transport - "Please put your card in the slot" DUCAT/transport - "Please put your card in the slot" DUCAT/dip - "Please put your card in the slot" PC CAT - "Please put your card in the slot"
ins_card2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6001 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card2a	O	X(38)	C	<p>If the secondary language of this CAT is English, display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card2aC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>
ins_card2bC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-1.

Screen PS6001A. One Language Hello - Alt

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
1	1
2	2
3	3
4	4
5	5 greeting
6	6 greeting1 not shown
7	7
8	8 ins_card1
9	9 ins_card1a
10	10 ins_card1b
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning- "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 A.M. to noon, "afternoon" is from noon to 6:00 P.M., and "evening" is from 6:00 P.M. to 6:00 A.M.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS60001A (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "Please put your card in the slot"</p> <p>CAT/transport - "Please put your card in the slot"</p> <p>DUCAT/transport - "Please put your card in the slot"</p> <p>DUCAT/dip - "Please put your card in the slot"</p> <p>PC CAT - "Please put your card in the slot"</p>
ins_card1a	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>
ins_card1b	O	X(38)	C	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "so I can help you."</p> <p>CAT/transport - blank</p> <p>DUCAT/transport - blank</p> <p>DUCAT/dip - "so I can help you."</p> <p>PC CAT - blank</p>

Screen Transition: See Figure 8-1.

Screen PS6002. Hello with Button - Two Languages

```

11111111112222222222333333333334.
1234567890123456789012345678901234567890
+-----+
1      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
2      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
3      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
4      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
5      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
6      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
7      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
8      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
9      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
10     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
11     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
12     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
13     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
14     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
15     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
16     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
17     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
18     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
19     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
20     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
greeting	O	X(38)	C	Display one of the following based on time of day: Morning - "Hello - May I help you?" Afternoon - "Hello - May I help you?" Evening - "Hello - May I help you?" Where "morning" is from 6:00 AM to noon, "afternoon" is from noon to 6:00 PM, and "evening" is from 6:00 PM to 6:00 AM.
greeting1	O	X(38)	C	Display one of the following based on time of day: Morning - blank Afternoon - blank Evening - blank

Standard Data Elements: Screen PS6002 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
hello2	O	X(38)	C	<p>If the secondary language of this CAT is English, display one of the following based on time of day:</p> <p>Morning - "Hello - May I help you?"</p> <p>Afternoon - "Hello - May I help you?"</p> <p>Evening - "Hello - May I help you?"</p>
hello2a	O	X(38)	C	<p>Display one of the following based on time of day:</p> <p>Morning - blank</p> <p>Afternoon - blank</p> <p>Evening - blank</p>
hello2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2	O	X(38)	C	If the secondary language of this CAT is English, display "Please put your card in the slot".
ins_card2C	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2a	O	X(38)	C	If the secondary language of this CAT is English, display "and take it out - so I can help you."
ins_card2aC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
ins_card2b	O	X(39)	C	If the secondary language of this CAT is English, display blank.
ins_card2bC	O	C(17)	C	See the appropriate non-English language ICC APS for text to display.
no_card	O	X(45)	L	If the secondary language of this CAT is English, display "Touch here if you don't have your card."
no_cardC	O	C(16)	L	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-1.

Screen PS6002A. Hello With Button - One Language

```
111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |      Hello - May I help you?      | 7
8 |                                     | 8
9 |                                     | 9
10 |      Please put your card in the slot | 10
11 |      and take it out - so I can help you. | 11
12 |                                     | 12
13 |                                     | 13
14 |                                     | 14
15 |                                     | 15
16 |                                     | 16
17 |      +----+                       | 17
18 |      +----+ Touch here if you don't have your card. | 18
19 |                                     | 19
20 |      © Citicorp 1990, 1995        | 20
+-----+
```

Screen Transition: See Figure 8-1.

Screen PS6004. Can't Read Card - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. I can't read your card | 3
4 | right now.                         | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 cant_read1/cant_read1C
14| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 cant_read1a/cant_read1aC
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
cant_read1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't read your card".
cant_read1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
cant_read1a	O	X(38)	L	If the secondary language of this CAT is English, display "right now."
cant_read1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1a.

Screen PS6004A. Can't Read Card - One Language

```
111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | I'm sorry.  I can't read your card | 9
10| right now.                               | 10
11|                                     | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
```

Screen Transition: See Figure 8-1a.

Screen PS6005. Card Not Supported - Two Languages

```

      1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     1 |
2 |                                     2 |
3 | I'm sorry. I can't handle this card 3 |
4 | yet.                                4 |
5 |                                     5 |
6 |                                     6 |
7 |                                     7 |
8 |                                     8 |
9 |                                     9 |
10 |                                    10 |
11 |                                    11 |
12 |                                    12 |
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 13 bad_card1/bad_card1C
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 14 bad_card1a/bad_card1aC
15 |                                     15 |
16 |                                     16 |
17 |                                     17 |
18 |                                     18 |
19 |                                     19 |
20 |                                    20 |
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
bad_card1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't handle this card".
bad_card1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
bad_card1a	O	X(38)	L	If the secondary language of this CAT is English, display "yet."
bad_card1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1a.

Screen PS6005A. Card Not Supported - One Language

```
1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | I'm sorry. I can't handle this card | 9
10| yet.                               | 10
11|                                   | 11
12|                                   | 12
13|                                   | 13
14|                                   | 14
15|                                   | 15
16|                                   | 16
17|                                   | 17
18|                                   | 18
19|                                   | 19
20|                                   | 20
+-----+
```

Screen Transition: See Figure 2-1a.

Screen PS6006. Card Not Taken - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 | 1 |
2 | I'm sorry. You haven't taken your | 2 |
3 | card. I'm holding your card for | 3 |
4 | your protection. | 4 |
5 | | 5 |
6 | | 6 |
7 | | 7 |
8 | | 8 |
9 | | 9 |
10 | | 10 |
11 | | 11 |
12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 not_taken1/not_taken1C
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 not_taken1a/not_taken1aC
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 not_taken1b/not_taken1bC
15 | | 15 |
16 | | 16 |
17 | | 17 |
18 | | 18 |
19 | | 19 |
20 | | 20 |
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
not_taken1	O	X(38)	L	If the secondary language of this CAT is English, then display "I'm sorry. You haven't taken your".
not_taken1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
not_taken1a	O	X(38)	L	If the secondary language of this CAT is English, display "card. I'm holding your card for".
not_taken1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
not_taken1b	O	X(38)	L	If the secondary language of this CAT is English, display "your protection."
not_taken1bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-6.

Screen PS6006A. Card Not Taken - One Language

```
111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | I'm sorry. You haven't taken your | 9
10| card. I'm holding your card for   | 10
11| your protection.                  | 11
12|                                   | 12
13|                                   | 13
14|                                   | 14
15|                                   | 15
16|                                   | 16
17|                                   | 17
18|                                   | 18
19|                                   | 19
20|                                   | 20
+-----+
```

Screen Transition: See Figure 8-6.

Screen PS6007. Out of Service - Two Languages

```

1111111111222222222233333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 | I'm sorry. I can't help you right now. | 4
5 | Please try again later.                | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12|                                     | 12
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 oos1/oos1C
14| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 oos1a/oos1aC
15| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 15 oos1b/oos1bC
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
oos1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't help you right now."
oos1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
oos1a	O	X(38)	L	If the secondary language of this CAT is English, display "Please try again later."
oos1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
oos1b	O	X(38)	L	If the secondary language of this CAT is English, leave blank.
oos1bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-3.

Screen PS6007A. Out of Service - One Language

```
1111111111222222222233333333334
1234567890123456789012345678901234567890

+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 | I'm sorry. I can't help you right now. | 9
10|                                     | 10
11| Please try again later.               | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
```

Screen Transition: See Figure 8-3.

Screen PS6008. Temporary Delays - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. We are having some    | 3
4 | temporary delays. Please wait a few | 4
5 | moments and try again.           | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 delays1/delays1C
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 delays1a/delays1aC
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 delays1b/delays1bC
15 |                                    | 15
16 |                                    | 16
17 |                                    | 17
18 |                                    | 18
19 |                                    | 19
20 |                                    | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
delays1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. We are having some".
delays1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
delays1a	O	X(38)	L	If the secondary language of this CAT is English, display "temporary delays. Please wait a few".
delays1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
delays1b	O	X(38)	L	If the secondary language of this CAT is English, display "moments and try again."
delays1bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-3.

Screen PS6008A. Temporary Delays - Two Languages

```
111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 | I'm sorry. We are having some    | 8
9 | temporary delays.                 | 9
10|                                     | 10
11| Please wait a few moments and     | 11
12| try again.                        | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+
```

Screen Transition: See Figure 8-3.

Screen PS6009. Can't Return Card - Two Languages

```

111111111122222222223333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry.  I can't return your card | 3
4 | right now..                               | 4
5 |                                     | 5
6 | Please use the phone next to you         | 6
7 | to call Customer Service.               | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 cant_return1/cant_return1C
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 cant_return1a/cant_return1aC
14|                                     | 14
15| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 15 call_cs1/call_cs1C
16| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 16 call_cs1a/call_cs1aC
17| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 17 call_cs1b/call_cs1bC
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
cant_return1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't return your card".
cant_return1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
cant_return1a	O	X(38)	L	If the secondary language of this CAT is English, display "right now..".
cant_return1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
call_cs1	O	X(38)	L	If the secondary language of this CAT is English, display "Please use the phone next to you".
call_cs1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6009 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
call_cs1a	O	X(38)	L	If the secondary language of this CAT is English, display "to call Customer Service."
call_cs1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
call_cs1b	O	X(38)	L	If the secondary language of this CAT is English, leave blank.
call_cs1bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-5.

Screen PS6009A. Can't Return Card - One Language

111111111122222222223333333334
1234567890123456789012345678901234567890

1		1
2		2
3		3
4		4
5		5
6	I'm sorry. I can't return your card	6
7	right now.	7
8		8
9	Please use the phone next to you	9
10	to call Customer Service.	10
11		11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 8-5.

Screen PS6010. Please Take Your Card - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |           Please take your card.   | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX| 13 take_card1/take_card1C
14 |                                    | 14
15 |                                    | 15
16 |                                    | 16
17 |                                    | 17
18 |                                    | 18
19 |                                    | 19
20 |                                    | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
take_card1	O	X(38)	C	If the secondary language of this CAT is English, display "Please take your card."
take_card1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-2.

Screen PS6010A. Please Take Your Card - One Language

111111111122222222223333333334		
1234567890123456789012345678901234567890		
1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9		9
10	Please take your card.	10
11		11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 8-2.

Overlay PS6011. Blank

1111111111222222222233333333334	
1234567890123456789012345678901234567890	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

Screen Transition: See Figure 8-2.

Overlay PS6012. Touch to Return Card - Two Languages

```

111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 | +-----+                         | 8
9 | Please touch here to return your card | 9
10| +-----+                         | 10
11|                                     | 11
12|                                     | 12
13|                                     | 13
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18| +-----+                         | 18
19| xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | 19 touch1/touch1C
20| +-----+                         | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
touch1	O	X(51)	C	If the secondary language of this CAT is English, display "Please touch here to return your card".
touch1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-2.

Overlay PS6012A. Touch to Return Card - Two Languages

1111111111222222222233333333334
1234567890123456789012345678901234567890

1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9		9
10		0
11		11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19	Please touch here to return your card	19
20		20

Screen Transition: See Figure 8-2.

Screen PS6013. Application Error - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |      | 1 |
2 |      | 2 |
3 | I'm sorry. I can't do that right now. | 3 |
4 |      | 4 |
5 |      | 5 |
6 |      | 6 |
7 |      | 7 |
8 |      | 8 |
9 |      | 9 |
10 |     | 10 |
11 |     | 11 |
12 |     | 12 |
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 error1/error1C
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 error1a/error1aC
15 |     | 15 |
16 |     | 16 |
17 |     | 17 |
18 |     | 18 |
19 |     | 19 |
20 |     | 20 |
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
error1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't do that right now."
error1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
error1a	O	X(38)	L	If the secondary language of this CAT is English, leave blank.
error1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-7.

Screen PS6013A. Application Error - One Language

```
1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10 | I'm sorry. I can't do that right now. | 10
11 |                                     | 11
12 |                                     | 12
13 |                                     | 13
14 |                                     | 14
15 |                                     | 15
16 |                                     | 16
17 |                                     | 17
18 |                                     | 18
19 |                                     | 19
20 |                                     | 20
+-----+
```

Screen Transition: See Figure 8-7.

Screen PS6014. Please Take Card Out - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | Please take your card out -      | 3
4 | so I can help you.                | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 |                                     | 8
9 |                                     | 9
10 |                                    | 10
11 |                                    | 11
12 |                                    | 12
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 take_out1/take_out1C
14 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 14 take_out1a/take_out1aC
15 |                                    | 15
16 |                                    | 16
17 |                                    | 17
18 |                                    | 18
19 |                                    | 19
20 |                                    | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
take_out1	O	X(38)	L	If the secondary language of this CAT is English, display "Please take your card out -"
take_out1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
take_out1a	O	X(38)	L	If the secondary language of this CAT is English, display "so I can help you."
take_out1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-1.

Comments: This screen should "boop" once per second until either the card is removed or it times out after 17.5 seconds.

Screen PS6014A. Please Take Card Out - One Language

111111111122222222223333333334		
1234567890123456789012345678901234567890		
1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9	Please take your card out -	9
10	so I can help you.	10
11		11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 8-1.

Comments: This screen should "boop" once per second until either the card is removed or it times out after 17.5 seconds.

Screen PS6015. Second Take Out Card - Two Languages

```

1111111111222222222233333333334
1234567890123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 | I'm sorry. I can't help you while | 3
4 | your card is in the slot.         | 4
5 |                                     | 5
6 | Please take your card out so we  | 6
7 | can start again.                  | 7
8 |                                     | 8
9 |                                     | 9
10|                                     | 10
11|                                     | 11
12| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 cant_help1/cant_help1C
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 cant_help1a/cant_help1aC
14|                                     | 14
15| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 15 start_again1/start_again1C
16| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 16 start_again1a/start_again1aC
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
cant_help1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I can't help you while".
cant_card1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
cant_help1a	O	X(38)	L	If the secondary language of this CAT is English, display "your card is in the slot.".
cant_help1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
start_again1	O	X(38)	L	If the secondary language of this CAT is English, display "Please take your card out so we".
start_again1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6015 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
start_again1a	O	X(38)	L	If the secondary language of this CAT is English, display "can start again."
start_again1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 8-1.

Comments: No "booping"; timeout is 120 seconds.

Screen PS6015A. Second Take Out Card - One Language

111111111122222222223333333334
1234567890123456789012345678901234567890

1		1
2		2
3		3
4		4
5		5
6		6
7		7
8	I'm sorry. I can't help you while	8
9	your card is in the slot.	9
10		10
11	Please take your card out so we	11
12	can start again.	12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20

Screen Transition: See Figure 8-1.

Comments: No "booping"; timeout is 120 seconds.

Screen PS6016. Bad Read, Please Re-Dip - Two Languages

```

1111111111222222222233333333334
123456789012345678901234567890
+-----+
1 |                                     1
2 |                                     2
3 | I'm sorry. I couldn't read your card 3
4 | that time.                             4
5 |                                     5
6 | Please put your card in the slot       6
7 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 7 ins_card1a
8 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 8 ins_card1b
9 |                                     9
10 |                                    10
11 |                                    11
12 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 12 couldnt_read1/couldnt_read1C
13 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 13 couldnt_read1a/couldnt_read1aC
14 |                                    14
15 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 15 ins_card2/ins_card2C
16 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 16 ins_card2a/ins_card2aC
17 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 17 ins_card2b/ins_card2bC
18 |                                    18
19 |                                    19
20 |                                    20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1a	O	X(38)	L	<p>Display one of the following based on the type of CAT hardware in use:</p> <p>CAT/dip - "to your right and take it out -"</p> <p>CAT/transport - "above."</p> <p>DUCAT/transport - "to your left."</p> <p>DUCAT/dip - "to your left and take it out -"</p> <p>PC CAT - "and take it out - so I can help you."</p>

Standard Data Elements: Screen PS6016 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1b	O	X(38)	L	Display one of the following based on the type of CAT hardware in use: CAT/dip - "so I can help you." CAT/transport - blank DUCAT/transport - blank DUCAT/dip - "so I can help you." PC CAT - blank
couldnt_read1	O	X(38)	L	If the secondary language of this CAT is English, display "I'm sorry. I couldn't read your card".
couldnt_read1C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
couldnt_read1a	O	X(38)	L	If the secondary language of this CAT is English, display "that time".
couldnt_read1aC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
ins_card2	O	X(38)	L	If the secondary language of this CAT is English, display "Please put your card in the slot".
ins_card2C	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.
ins_card2a	O	X(38)	L	If the secondary language of this CAT is English, display one of the following based on the type of CAT hardware in use: CAT/dip - "to your right and take it out -" CAT/transport - "above." DUCAT/transport - "to your left." DUCAT/dip - "to your left and take it out -" PC CAT - "and take it out - so I can help you."
ins_card2aC	O	C(17)	L	See the appropriate non-English language ICC APS for text to display.

Standard Data Elements: Screen PS6016 (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card2b	O	X(38)	L	Display one of the following based on the type of CAT hardware in use: CAT/dip - "so I can help you." CAT/transport - blank DUCAT/transport - blank DUCAT/dip - "so I can help you." PC CAT - blank
ins_card2bC	O	C(17)	V	See the appropriate non-English language ICC APS for text to display.

Screen Transition: See Figure 2-1a.

Comments: Screen should "boop" once when first presented. Timeout is 7 seconds.

Screen PS6016A. Bad Read, Please Re-Dip - One Language

```

111111111122222222223333333334
123456789012345678901234567890
+-----+
1 |                                     | 1
2 |                                     | 2
3 |                                     | 3
4 |                                     | 4
5 |                                     | 5
6 |                                     | 6
7 |                                     | 7
8 | I'm sorry. I couldn't read your card | 8
9 | that time.                          | 9
10|                                     | 10
11| Please put your card in the slot     | 11
12| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 12 ins_cardla
13| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 13 ins_cardlb
14|                                     | 14
15|                                     | 15
16|                                     | 16
17|                                     | 17
18|                                     | 18
19|                                     | 19
20|                                     | 20
+-----+

```

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
ins_cardla	O	X(38)	L	Display one of the following based on the type of CAT hardware in use: CAT/dip - "to your right and take it out -" CAT/transport - "above." DUCAT/transport - "to your left." DUCAT/dip - "to your left and take it out -" PC CAT - "and take it out - so I can help you."

Standard Data Elements: Screen PS6016A (cont)

Data Name	I/O	Format	L-C-R-V	Comments
ins_card1b	O	X(38)	L	Display one of the following based on the type of CAT hardware in use: CAT/dip - "so I can help you." CAT/transport - blank DUCAT/transport - blank DUCAT/dip - "so I can help you." PC CAT - blank

Screen Transition: See Figure 2-1a.

Comments: Screen should "boop" once when first presented. Timeout is 7 seconds.

Screen PS6017. Enter Card Number

```

1111111111222222222233333333334
123456789012345678901234567890

```

1					1
2	Please tell me your card number.				2
3	Then touch ENTER.				3
4	(Touch CLEAR to erase.)				4
5	+-----+				5
6	-----				6 card_id
7	+-----+				7
8					8
9	1	2	3		9
10					10
11	+-----+			ENTER	11
12					12
13	4	5	6		13
14					14
15	+-----+			CLEAR	15
16					16
17	7	8	9		17
18	+-----+			+-----+	18
19		0		EXIT	19
20	+-----+			+-----+	20

Standard Data Elements

Data Name	I/O	Format	L-C-R-V	Comments
card_id	I	9(19)	L	Must be ≥ 6 and ≤ 19 digits. As the number is entered, display the digits from left to right.

Screen Transition: See Figure 8-9.

PRC PS6025. Off-Us Local Processing

Screen Transition: See Figure 2-1a.

Comments: At this point to which the ICC Generic Product Select application returns if it cannot process a card.

The main purpose of this entry point is to allow local Off-Us processing of cards that are either not recognized by ICC or recognized as local Off-Us by ICC.

For ICC Standalone applications, there is no local Off-Us support, so it is expected that the ICC Generic Product Select application would return a card class of "unsupported". If so, the unsupported card error screen is displayed and the session is ended, returning the card if necessary.

If any other card class is returned, it is treated as a bad card read.

Appendix A

ICC Card Prefix Table

Most of the values in the Card Prefix File are assigned by TTI.

This chapter details only those items which are assigned by the Consumer Product Development Group.

The following codes in Table A-1 are valid entries in the four Base_Lang_Cde/Lang_Cde fields.

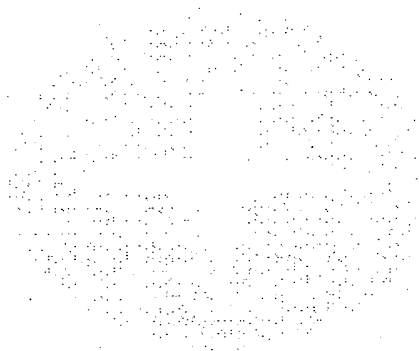
Table A-1. Valid Base_Lang_Cde and Lang_Cde Field Entries

Base_Lang_Cde	Lang_Cde	Description
01	01	U.S. English
02	02	Master Spanish
03	03	Master Chinese (Standard Characters)
04	04	German
05	05	Italian
06	06	French
07	07	Greek
08	08	Filipino
09	09	Malay
10	10	Japanese
11	11	Turkish
12	12	Arabic
13	13	Hangul (Korean)
14	14	Russian
03	15	Chinese (Simplified Characters)

Appendix B

Currency Code Information

The ICC applications use the currency codes assigned by the International Organization for Standardization (ISO). This standard is defined in ISO 4217:1987 (E/F). All ESP messages use the **alphabetic** representation of the currency code. How currencies should be formatted on screen displays and printed records is defined in Appendix NO TAG .



Appendix C

General Formats

This chapter details the currency and the date formatting used by the Global ICC application.

C.1 Currency Formatting

The Currency Format table is only required by versions of the ICC application prior to Global ICC (Phase 5). However, this table will remain in the APS until Global ICC has been implemented in all locations, completely replacing all previous versions of ICC.

Table C-1 details how each of the ISO currencies should be formatted, and indicates the number of decimal places supported for each currency, and the character to use as the decimal separator.

NOTE

For a format that includes asterisks (*), substitute the characters indicated as "Desc" for the leftmost asterisk.

Table C-1. Currency Formats

ISO Code	Desc	Dec. Places	Thous. Sep.	Dec. Point Indic.	"Z" Format	"\$" Format	"W" Format
ADP	"ADP "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***.***9-	**.*.*.*9
AED	"Dh. "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
AFA	"Af "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
ALL	"ALL "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
ANG	"ANG "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
AOK	"Kz "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,***9-	**.*.*.*9
AON	"AON "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
ARA	"Ar\$ "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
ARP	"Ar\$ "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
ARS	"Ar\$ "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
ATS	"ATS "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.99-	****.***.***.***9.99-	**.*.*.*9
AUD	"A\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
AWG	"AWG "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
BBD	"Bds\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
BDT	"Tk "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
BEC	"BEC "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***.***9-	**.*.*.*9
BEF	"BEF "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***.***9-	**.*.*.*9
BEL	"BEL "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***.***9-	**.*.*.*9
BGL	"BGL "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
BHD	"BD "	3	comma	period	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***,***,***,***9.999-	**,***,***9
BIF	"FBu "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,***9-	**.*.*.*9
BMD	"\$B "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
BND	"B\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
BOB	"\$b "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
BRC	"R\$ "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
BRL	"R\$ "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
BSD	"B\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
BTN	"N "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
BUK	"BuK "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
BWP	"BwP "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
BZD	"\$B "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
CAD	"C\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.99-	****,***,***,***9.99-	**,***,***9
CEK	"CEK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
CHF	"CHF "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.99-	****.***.***.***9.99-	**.*.*.*9

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Table C-1. Currency Formats

ISO Code	Desc	Dec. Places	Thous. Sep.	Dec. Point Indic.	"Z" Format	"\$" Format	"W" Format
CLF	"Ch\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CLP	"Ch\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CNY	"RMB "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,**9.99-	**,**,**9
COP	"Col\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CRC	"¢ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CUP	"Cu\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CVE	"Esc "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CYP	"£C "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
CZK	"CZK "	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
DEM	"DM "	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
DJF	"DF "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,**9-	**,**,**9
DKK	"DKK "	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
DOP	"RD\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
DZD	"DA "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
ECS	"S/ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
EEK	"EEK "	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
EGP	"£E "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
ESB	"ESB "	0	period	none	ZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,**9-	**,**,**9
ESP	"PTS "	0	period	none	ZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,**9-	**,**,**9
ETB	"EB "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
FIM	"FIM "	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
FJD	"\$F "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
FKP	"FK£ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
FRF	"FRF "	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GBP	"£ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GEK	"GEK "	0	period	none	ZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,**9-	**,**,**9
GHC	"C "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GIP	"GIP "	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GMD	"DD "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GNF	"GnF "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,**9-	**,**,**9
GRD	"GRD "	0	period	none	ZZ,ZZZ,ZZZ,ZZZ.Z9-	***,***,***,**9-	**,**,**9
GTQ	"Q "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GWP	"GWP "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9
GYD	"G\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,**9.99-	**,**,**9

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Table C-1. Currency Formats

ISO Code	Desc	Dec. Places	Thous. Sep.	Dec. Point Indic.	"Z" Format	"\$" Format	"W" Format
HKD	"HK\$"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
HNL	"L"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
HRK	"HRK"	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
HTG	"G"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
HUF	"HUF"	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
IDR	"Rp."	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
IEP	"IEP"	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
ILS	"₪"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
INR	"Rs"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
IQD	"ID"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
IRR	"RIs"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
ISK	"ISK"	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
ITL	"ITL"	0	period	none	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***,***,***,***9.99-	**,***,***9
JMD	"J\$"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
JOD	"JD"	3	comma	period	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***,***,***,***9.999-	**,***,***9
JPY	"¥"	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	¥¥,¥¥,¥¥,¥¥,¥¥9	¥¥,¥¥,¥¥9
KES	"KSh"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
KGS	"KGS"	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
KHR	"KR"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
KMF	"CAF"	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***,***,***,***9.99-	**,***,***9
KPW	"KPW"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
KRW	"₩"	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***,***,***,***9.99-	**,***,***9
KWD	"KD"	3	comma	period	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***,***,***,***9.999-	**,***,***9
KYD	"KYD"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
KZT	"KZT"	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
LAK	"LaK"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
LBP	"LL"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
LKR	"CRs"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
LRD	"Li\$"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
LSL	"LSL"	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
LTL	"LTL"	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
LIT	"LIT"	2	period	comma	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,***9
LUC	"LUC"	0	period	none	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***,***,***,***9.99-	**,***,***9
LUF	"LUF"	0	period	none	ZZ,ZZZ,ZZZ,ZZZ.ZZ9-	***,***,***,***9.99-	**,***,***9

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Table C-1. Currency Formats

ISO Code	Desc	Dec. Places	Thous. Sep.	Dec. Point Indic.	"Z" Format	"\$" Format	"W" Format
LUL	"LUL "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***.***9-	***.***.***9
LVL	"LVL "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
LVR	"LVR "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
LYD	"LD "	3	comma	period	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***9.999-	***.***.***9
MAD	"DH "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
MDL	"MDL "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
MGF	"FMG "	0	comma	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***.***9-	***.***.***9
MKD	"MKD "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
MMK	"MMK "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
MNT	"Tug "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
MOP	"P "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
MRO	"MrO "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
MTL	"MTL "	3	period	comma	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***9.999-	***.***.***9
MUR	"MaR "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
MVR	"MRe "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
MWK	"MwK "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
MXN	"Mx\$"	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
MXP	"Mex\$"	0	comma	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***.***9-	***.***.***9
MYR	"RM "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
MZM	"MZM "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
NGN	"N- "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
NIC	"C\$ "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
NIO	"NIO "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
NLG	"NLG "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
NOK	"NOK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
NPR	"NRs "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
NZD	"NZ\$ "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
OMR	"RO "	3	comma	period	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***9.999-	***.***.***9
PAB	"PaB "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
PEI	"PEI "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
PEN	"PEN "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
PGK	"K "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
PHP	"P "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9
PKR	"PKR "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	***.***.***9

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Table C-1. Currency Formats

ISO Code	Desc	Dec. Places	Thous. Sep.	Dec. Point Indic.	"Z" Format	"\$" Format	"W" Format
PLZ	"PLZ "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
PTE	"PTE "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	****.***.***.***9-	**.*.*.*9
PYG	"G "	0	comma	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***9-	**.*.*.*9
QAR	"QRI "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
ROL	"ROL "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
RUR	"RUR "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
RWF	"RF "	0	comma	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***9-	**.*.*.*9
SAR	"SR1 "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SBD	"SI\$ "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SCR	"SRs "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SDD	"SDD "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SDP	"£S "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SEK	"SEK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SGD	"S\$ "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SHP	"SHP "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SIT	"SIT "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SKK	"SKK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SLL	"Le "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SOK	"SOK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SOS	"SoS "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SRG	"Su f "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
STD	"Db "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SUR	"SUR "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SVC	"SVC "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SYP	"£Sy "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
SZL	"E "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
THB	"Bht "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
TMM	"TMM "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
TND	"TuD "	3	comma	period	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***9.99-	**.*.*.*9
TOP	"T\$ "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
TPE	"TPE "	0	comma	none	ZZ.ZZZ.ZZZ.ZZZ.ZZ9-	***.***.***.***9-	**.*.*.*9
TRL	"TL "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
TTD	"TT\$ "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9
TWD	"NT\$ "	2	comma	period	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****.***.***.***9.99-	**.*.*.*9

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Table C-1. Currency Formats

ISO Code	Desc	Dec. Places	Thous. Sep.	Dec. Point Indic.	"Z" Format	"\$" Format	"W" Format
TZS	"TSh "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
UAK	"UAK "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
UGS	"USh "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
UGX	"UGX "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,***9-	**,***,**9
USD	"US\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
USN	"US\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
USS	"US\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
UYU	"N\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
UYU	"UYU "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
VEB	"Bs. "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
VND	"VND "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
VUV	"VUV "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,***9-	**,***,**9
WST	"WST "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
XAF	"CAF "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,***9-	**,***,**9
XCD	"EC\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
XEU	"XEU "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
XOF	"CAF "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,***9-	**,***,**9
XPF	"CPF "	0	comma	none	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***,***9-	**,***,**9
XXX	" "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
YDD	"SYD "	3	comma	period	ZZ,ZZZ,ZZZ,ZZZ,ZZ9-	***,***,***,***9.999-	**,***,**9
YER	"YRI "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
YUD	"YUD "	0	period	none	ZZ.ZZZ.ZZZ.ZZZ,ZZ9-	***,***,***,***,***9-	**,***,**9
YUN	"YUN "	2	period	comma	ZZZ.ZZZ.ZZZ.ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
ZAL	"R "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
ZAR	"R "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
ZMK	"ZMK "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
ZRN	"ZRN "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
ZRZ	"Z "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9
ZWD	"Z\$ "	2	comma	period	ZZZ,ZZZ,ZZZ,ZZZ.Z9-	****,***,***,***9.99-	**,***,**9

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C.2 Date Formatting

In Global ICC, there are two types of dates: pre-formatted and unformatted.

Pre-formatted Dates

Pre-formatted dates are used only in Transaction Journal (TJ) screens (all in Chapter 4). A pre-formatted date shows and prints only a day and month. These are specified to have a length of five characters. This is to be displayed *exactly* as it is received, without additional reformatting. The application cannot determine the order in which the date and month have been sent. It is assumed that the pre-formatted date received contains the full five (5) characters (for example, "01/01" or "12-12").

Unformatted Dates

Unformatted dates are formatted for display based on the language of the session. In all languages, dates are displayed in the format "DD MMM YYYY" (for example, 09 Jan 1996).

For TJ, unformatted dates are formatted as "DD/MM".

Other than TJ, unformatted dates are expected in all circumstances in which a date is specified in the APS.

Table C-2 shows the abbreviation that should be used for each month, for both screen display and for printed records. The abbreviations for the remaining Global ICC languages can be found in their respective Global ICC Language Screen by Phrase reports.

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Table C-2. Month Abbreviations (English)

Language	Month	Screen Abbrev.	Print Record Abbrev.
English	January	Jan	JAN
	February	Feb	FEB
	March	Mar	MAR
	April	Apr	APR
	May	May	MAY
	June	Jun	JUN
	July	Jul	JUL
	August	Aug	AUG
	September	Sep	SEP
	October	Oct	OCT
	November	Nov	NOV
	December	Dec	DEC

C.3 Product Term Formatting

Balance Inquiry screens may display the Product Term field (7261) for the Time Deposits Product Category (see Table 6-1). This explains how this field is to be formatted.

Format the Product Term using the following elements from the Message 4501 response:

- Product Term (elemid 7261)
- Period Code (elemid 8401)

If Product Term = 1, based on the Period Code, display:

- 1 = "Z9 Day"
- 2 = "Z9 Week"
- 3 = "Z9 Month"
- 4 = "Z9 Year"

If Product Term > 1, based on the Period Code, display:

- 1 = "ZZ9 Days"
- 2 = "ZZ9 Weeks"
- 3 = "ZZ9 Months"
- 4 = "ZZ9 Years"

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C.4 Interest Rate Formatting

Balance Inquiry screens may display interest rates (for examples, element IDs 7600, 7612). These rates are received from the FEP as a string of six to 12 characters long with four implied decimal places. They are displayed in screens based on the account currency code as follows:

ZZ,ZZZ,ZZ9.9999% for account currency code with period (".") as the decimal separator

ZZ.ZZZ.ZZ9,9999% for account currency code with comma (",") as the decimal separator

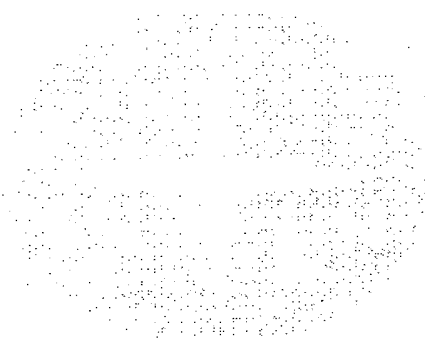
For example, if the FEP returns the value 356000 for a US\$ loan, the screen display will be 35.6000%.

Appendix D

ICC Cash Dispense Algorithm

When Global ICC is installed in a business that offers CAT services to its own customers, the On-Us Cash Dispense Algorithm is modified to indicate the amount selections that should be offered to ICC customers. Normally, these amounts are a subset of the amounts and bill mixes defined for the On-Us application.

For standalone ICC installations, the cash dispense algorithm must be specified independently of any other algorithm based on the currency and bill types to be dispensed at each standalone configuration.



Appendix E

Logging Information

The CAT applications maintain logs of all sessions and transactions. For each customer session, a start session record and an end session record are logged. In addition, each individual transaction is logged at its conclusion, whether or not it succeeds.

All places in which logs are updated are explicitly noted in the flowcharts, with the exception of exits and timeouts during a transaction. Whenever these occur, a log message should be generated with an appropriate completion code signifying that the transaction was terminated by either exit or timeout.

Application logs may be displayed via the CAT Peruse Utility through a separate terminal.

Each record logged by the application has a fixed format. Table E-1 shows which data elements are written to the log for each transaction.

Table E-1. Elements to Log

Element to Log	Withdrawal	Balance Inquiry and TJ	Transfer
Message Sequence Number	X	X	X
Terminal ID	X	X	X
Card Number	X	X	X
Transaction Date	X	X	X
Transaction Time	X	X	X
Transaction Type	X	X	X

Table E-1. Elements to Log (cont)

Element to Log	Withdrawal	Balance Inquiry and TJ	Transfer
Source Account Number	X	X	X
Source Product Type Code	X	X	X
Source Currency Code	X	X	X
Transaction Amount	X		X
Transaction Currency Code	X		X
Transaction Currency Type	X		
Destination Account Number			X
Destination Product Type Code			X
Destination Currency Code			X
Host Response Code	X	X	X
Action Code	X	X	X
Completion Code	X	X	X
Completion Reason Code	X	X	X

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